2019 PRODUCT CATALOG

www.cyntec.com

Cyntec

MAKING THINGS SMALLER AND BETTER

ABOUT CYNTEC

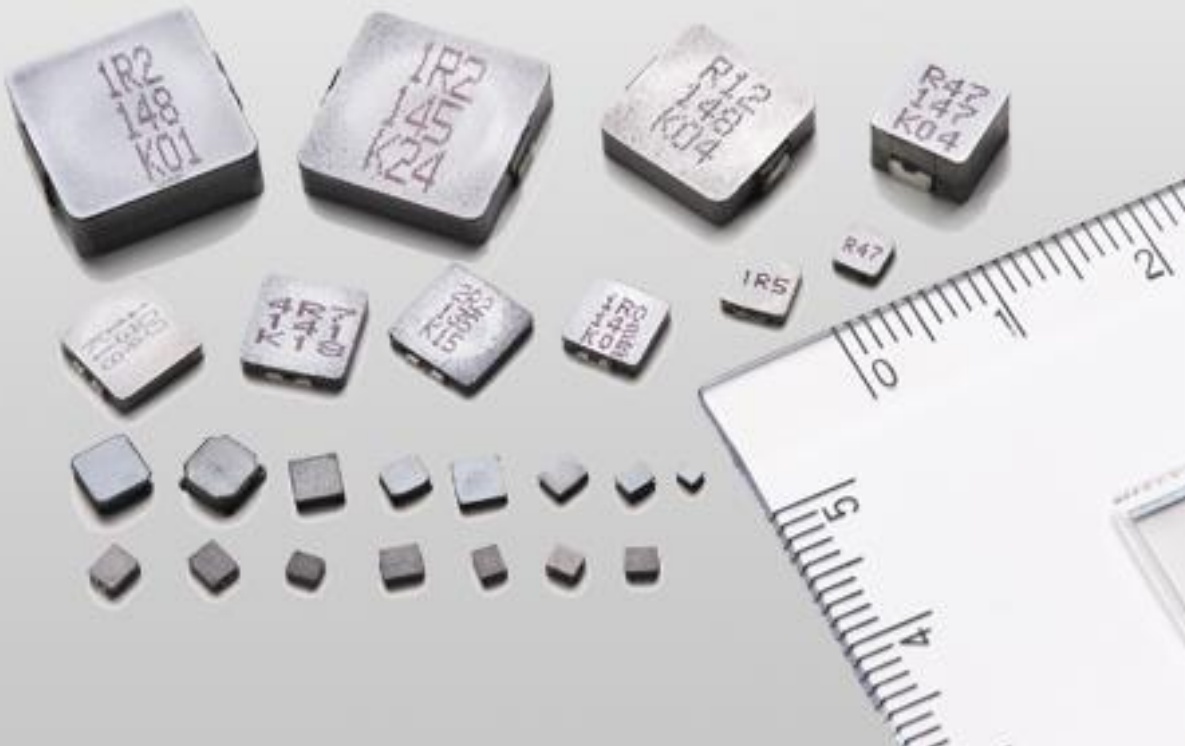
Cyntec has been developing miniaturized components with high level of integration since 1992. Using our advanced design and processing technologies, we have established four technology platforms for passive components, sensors, high frequency RF components, and power modules. At Cyntec we do widely use combinations of substrate materials (ceramic, glass, silicon material, etc…) and processing technologies (photolithography, thick film technologies) to produce passive components such as chip resistors, resistor arrays and current sensors which provide the best design and performance solutions for the computer and communication product.

At Cyntec, we are committed to the continuous improvement on the quality and reliability of our products. We strive to do things right at the first time, creating higher value for our customers. In the initial stages of the product development, Cyntec utilizes computer aided design tools and techniques for the circuit design layout, modeling and simulation, as well as to carry out stringent reliability tests. Cyntec has received ISO9001 & ISO/TS 16949 international certification in recognition of our outstanding system and product quality, confirmed by the approvals and endorsements shown from several domestic and international Fortune 500 companies. Otherwise, we also received ISO 14001, OHSAS 18000, and IECQ QC080000 to represent our deeply environment consciousness

POWER CHOKE

Cyntec developed three types of power choke, sealed, molded, and assembly type that can deliver space-saving and high efficiency products to our customer. In Cyntec Power choke is a representation product, the capacity is over 1200 million in one month and widely used in computer, smartphone, LED Lighting, and Automotive.

Cyntec's provided different features depend on processing type. Sealed power choke characterized with low applied current, low profile, and low DCR. It's miniaturization size down to 1.25mmx1.0mmx1.0mm that helped to save space. Molding power choke provides customers with low profile product which decrease thickness to 1.2mm. Otherwise, it featured high saturated current, low eddy current, high power density, and low DCR. Assembly power choke featured low eddy current, high applied current, high power density, and low DCR.



PART NUMBERING

①	②	③	-	④	⑤	⑥
SDED	2016	1T	-	R47	M	S

① Series No

② SIZE (L*W) : 2016=2.0mm*1.6mm

CODE	2016	2520	03	04	05
Dimension	2.0*1.6	2.5*2.0	3.0*3.0	4.0*4.0	5.0*5.0
CODE	**06**	**07**	**10**	**13**	**17**
Dimension	6.0*6.0	7.0*7.0	10.0*10.0	13*13	17*17

③ SIZE (T) : 1T=1.0mm ; 2B=2.2mm

CODE	T	B	D	E	H
Dimension	0.0	0.2	0.4	0.5	0.8

④ Inductance value:

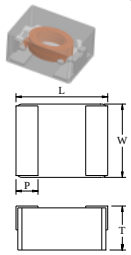
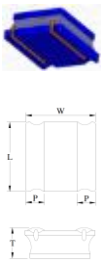
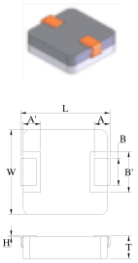
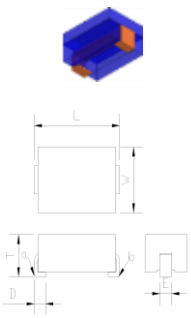
3 Types:

TYPE	1		2		3		4		5
CODE	R47	R50	1R0	2R2	100	220	101	201	102
Inductance value	0.47	0.50	1.0	2.2	10.0	22.0	100.0	200.0	1000.0

⑤ Tolerance: M=± 20%

⑥ Materials Type

SPECIFICATION NOTE

TYPE	SPECIFICATION NOTE
High Performance type 	**：Inductance Tolerance ± 20% **Note 1.**: All test data is referenced to 25℃ ambient. **Note 2.:** Test Condition:1MHz, 1.0Vrms **Note 3.:** Idc : DC current (A) that will cause an approximate ΔT of 40℃ **Note 4:** Isat : DC current (A) that will cause Lo to drop approximately 30% **Note 5.:** Operating Temperature Range -55℃ to + 125℃ **Note 6.:** The part temperature (ambient + temp rise) should not exceed 125℃ under worse case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application. **Note 7.:** The rated current as listed is either the saturation current or the heating current depending on which value is lower.
Sealed type 	**: Inductance Tolerance ± 20% **Note 1:** All test data is referenced to 25℃ ambient. **Note 2:** Idc : DC current (A) that will cause an approximate ΔT of 40℃ **Note 3:** Isat : DC current (A) that will cause Lo to drop approximately 30% **Note 4:** Operating Temperature Range -55℃ to + 125℃ **Note 5:** The part temperature (ambient + temp rise) should not exceed 125℃ under worse case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application. **Note 6:** The rated current as listed is either the saturation current or the heating current depending on which value is lower.
Molded type 	
Assembly type 	**: Inductance Tolerance ± 20% **Note 1:** The rated current as listed is either the saturation current or the heating current depending on which value is lower. **Note 2:** The nominal DCR tolerance is by design. The nominal DCR is measured from point *a* to point *b*, as shown below on the mechanical drawing. **Note 3:** The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperature(25℃). This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component. **Note 4:** The heating current is the DC current which causes the part temperature to increase by approximately 40℃. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes without any forced air cooling. **Note 5:** In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate decreasing the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the core loss and temperature rise curves can be used. **Note 6:** Cyntec complies to industry standard tape and reel specification EIA481.

SERIES PRODUCT SPECIFICATION

1608 SERIES 2012 SERIES 2016 SERIES 2520 SERIES 3*3 SERIES 4*4 SERIES 5*5 SERIES 6*6 SERIES 7*7 SERIES
8*8 SERIES 9*9 SERIES 10*10 SERIES 11*11 SERIES 12*12 SERIES 13*13 SERIES 14*14 SERIES 17*17 SERIES

1608 SERIES

HTEB16080F HTEK1608FE HTEK16080H SDER16080H

HTEB16080F (1.6*0.8*0.6 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HTEB16080F-1R0MSR	1.0	283	318	1.0	0.9	1.50	1.35
HTEB16080F-1R5MSR	1.5	420	480	0.8	0.7	1.00	0.90

Back to 1608 SERIES TOP

HTEK1608FE (1.6*0.8*0.65 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HTEK1608FE-R47MSR	0.47	70	80	2.0	1.8	2.8	2.52
HTEK1608FE-1R0MSR	1.0	135	160	1.5	1.3	2.0	1.8

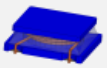
Back to 1608 SERIES TOP

HTEK16080H (1.6*0.8*0.8 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HTEK16080H-1R0MSR	1.0	118	142	2.0	1.7	2.3	2.0

Back to 1608 SERIES TOP

SDER16080H (1.6*0.8*0.8 mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDER16080H-1R0MSR	1.0	155	185	1.10	1.00	0.55	0.50
SDER16080H-2R2MSR	2.2	250	300	0.86	0.77	0.33	0.30
SDER16080H-3R3MSR	3.3	470	560	0.60	0.54	0.28	0.25

Back to 1608 SERIES TOP

2012 SERIES

HTEH20120H HTEH20121T HMLQ20121T SDEK20121T

HTEH20120H (2.0*1.2*0.8 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HTEH20120H-R47MSR	0.47	26	33	3.9	3.7	4.8	4.3
HTEH20120H-1R0MSR	1.0	45	55	3.5	3.2	3.8	3.3

Back to 2012 SERIES TOP

HTEH20121T (2.0*1.2*1.0 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HTEH20121T-R47MSR	0.47	21	25	4.6	4.2	5.1	4.6

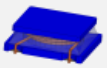
Back to 2012 SERIES TOP

HMLQ0121T (2.0*1.2*1.0 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLQ20121T-R47MXR	0.47	40	48	2.8	2.5	4.1	3.8
HMLQ20121T-1R0MXR	1.0	100	120	1.8	1.6	2.3	2.1

Back to 2012 SERIES TOP

SDEK20121T (2.0*1.2*1.0 mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDEK20121T-R47MS	0.47	58	65	2.2	2.0	3.1	2.8
SDEK20121T-1R0MS	1.0	140	170	1.50	1.35	2.25	2.05
SDEK20121T-1R5MS	1.5	250	300	1.00	0.90	1.80	1.62
SDEK20121T-2R2MS	2.2	345	415	0.80	0.72	1.40	1.30
SDEK20121T-4R7MS	4.7	545	654	0.70	0.63	0.80	0.72

Back to 2012 SERIES TOP

2016 SERIES

HTEG2016FE HMLQ20160H HTEN20161T HTEX20161T HTEK20161T HMLQ20161T HMLQ20161B SDEM20161T SDED20161T VCTA20161B (Automotive-Grade)

HTEG2016FE (2.0*1.6*0.65mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HTEG2016FE-1R0MDR	1.0	50	60	3.0	2.7	2.7	2.4

Back to 2016 SERIES TOP

HMLQ20160H (2.0*1.6*0.8 mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HMLQ20160H-1R0MDR	1.0	83	96	2.7	2.4	2.9	2.6

Back to 2016 SERIES TOP

HTEN20161T (2.0*1.6*1.0 mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HTEN20161T-R47MDR	0.47	26	32	4.2	4.0	5.3	4.8

Back to 2016 SERIES TOP

HTEX20161T (2.0*1.6*1.0 mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HTEX20161T-4R7MDR	4.7	210	250	1.5	1.3	1.9	1.7

Back to 2016 SERIES TOP

HTEK20161T (2.0*1.6*1.0 mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HTEK20161T-R47MSR	0.47	18	22	5.4	4.8	6.0	5.5
HTEK20161T-1R0MSR	1.0	35	43	4.5	4.1	4.6	4.2

Back to 2016 SERIES TOP

HMLQ20161T (2.0*1.6*1.0 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLQ20161T-R33MDR	0.33	21	26	4.80	4.40	5.70	5.20
HMLQ20161T-R47MDR	0.47	26	32	4.40	4.05	4.90	4.50
HMLQ20161T-R68MDR	0.68	40	50	3.40	3.10	4.60	4.00
HMLQ20161T-1R0MDR	1.0	49	59	3.20	3.00	3.90	3.65
HMLQ20161T-1R5MDR	1.5	99	109	2.35	2.05	3.00	2.70
HMLQ20161T-2R2MDR	2.2	142	150	2.20	2.00	2.65	2.45

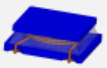
Back to 2016 SERIES TOP

HMLQ20161B (2.0*1.6*1.2 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLQ20161B-R47MDR	0.47	20	26	5.10	4.60	5.80	5.00
HMLQ20161B-1R0MDR	1.0	45	55	3.40	3.00	4.25	3.85

Back to 2016 SERIES TOP

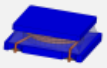
SDEM20161T (2.0*1.6*1.0 mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDEM20161T-R24MS	0.24	20	24	5.0	4.50	6.1	5.50
SDEM20161T-R33MS	0.33	27	32	4.0	3.60	4.6	4.10
SDEM20161T-R47MS	0.47	34	41	3.5	3.00	4.4	3.90
SDEM20161T-R68MS	0.68	46	55	3.2	2.80	3.7	3.30
SDEM20161T-1R0MS	1.0	60	72	2.7	2.40	3.15	2.70
SDEM20161T-1R5MS	1.5	100	120	2.4	2.16	2.7	2.43
SDEM20161T-2R2MS	2.2	134	159	1.8	1.60	1.9	1.70
SDEM20161T-3R3MS	3.3	255	306	1.2	1.08	1.5	1.35
SDEM20161T-4R7MS	4.7	355	426	1.1	1.00	1.4	1.26
SDEM20161T-6R8MS	6.8	532	639	0.8	0.72	1.15	1.05
SDEM20161T-100MS	10.0	840	1,010	0.7	0.63	0.8	0.72

Back to 2016 SERIES TOP

SDED20161T (2.0*1.6*1.0 mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDED20161T-R24MS	0.24	26.5	34.5	4.00	3.60	3.83	3.42
SDED20161T-R47MS	0.47	49	59	2.60	2.34	3.00	2.70
SDED20161T-R68MS	0.68	67	81	2.30	2.05	2.30	2.05
SDED20161T-1R0MS	1.0	87	107	1.70	1.50	2.00	1.80
SDED20161T-1R5MS	1.5	137	164	1.60	1.44	1.65	1.50
SDED20161T-2R2MS	2.2	192	230	1.35	1.22	1.45	1.31
SDED20161T-3R3MS	3.3	243	292	1.05	0.95	1.05	0.95
SDED20161T-4R7MS	4.7	322	387	0.95	0.85	0.95	0.80
SDED20161T-6R8MS	6.8	610	732	0.62	0.56	0.80	0.72
SDED20161T-100MS	10.0	932	1,119	0.47	0.42	0.62	0.55
SDED20161T-150MS	15.0	1,580	1,895	0.42	0.38	0.50	0.45
SDED20161T-220MS	22.0	2,365	2,838	0.37	0.33	0.45	0.40

Back to 2016 SERIES TOP

VCTA20161B (2.0*1.6*1.2 mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCTA20161B-R15MS6	0.15	11.0	14.0	6.1	5.4	7.5	6.4
VCTA20161B-R22MS6	0.22	13.0	16.0	5.6	5.0	6.8	5.8
VCTA20161B-R33MS6	0.33	19.0	23.0	4.7	4.2	5.9	5.1
VCTA20161B-R47MS6	0.47	21.0	25.0	4.5	4.0	5.4	4.8
VCTA20161B-1R0MS6	1.0	41.0	48.0	3.1	2.7	3.8	3.3
VCTA20161B-1R5MS6	1.5	67.0	80.0	2.5	2.3	3.2	2.8
VCTA20161B-2R2MS6	2.2	105.0	120.0	2.0	1.7	2.8	2.5
VCTA20161B-3R3MS6	3.3	210.0	250.0	1.3	1.2	1.8	1.5
VCTA20161B-4R7MS6	4.7	315.0	378.0	1.2	1.0	1.4	1.2
VCTA20161B-6R8MS6	6.8	560.0	670.0	0.8	0.7	0.7	0.6

Back to 2016 SERIES TOP

2520 SERIES

HMLQ25201T HMLQ25201B HMLD25201D SDEM25201T SDEM25201B SDET25200H SDET25201T SDET25201B
VCTA25201B (Automotive-Grade)

HMLQ25201T (2.5*2.0*1.0 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLQ25201T-R33MSR	0.33	16	20	5.5	5.0	7.3	7.0
HMLQ25201T-R47MSR	0.47	19	25	4.3	3.7	5.6	5.0
HMLQ25201T-1R0MSR	1.0	44	53	3.7	3.4	5.0	4.3
HMLQ25201T-2R2MSR	2.2	89	102	2.4	2.2	3.4	3.0
HMLQ25201T-4R7MSR	4.7	220	262	1.6	1.45	2.0	1.8

Back to 2520 SERIES TOP

HMLQ25201B (2.5*2.0*1.2 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLQ25201B-R47MSR	0.47	21	27	4.7	4.2	6.4	5.7
HMLQ25201B-1R0MSR	1.0	34	41	4.0	3.6	4.5	4.0
HMLQ25201B-1R5MSR	1.5	56	68	3.2	2.8	3.9	3.5

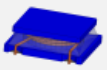
Back to 2520 SERIES TOP

HMLE25201D (2.5*2.0*1.4 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLE25201D-2R2MSR	2.2	69	83	2.5	2.3	3.3	3.0
HMLE25201D-4R7MSR	4.7	175	213	1.6	1.4	2.0	1.7

Back to 2520 SERIES TOP

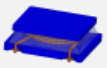
SDEM25201T (2.5*2.0*1.0mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDEM25201T-R24MS	0.24	19	23	4.60	4.30	7.00	6.30
SDEM25201T-R33MS	0.33	24	29	4.50	4.20	6.50	5.85
SDEM25201T-R47MS	0.47	29	35	4.00	3.60	5.50	5.00
SDEM25201T-R68MS	0.68	39	47	3.55	3.20	4.20	3.78
SDEM25201T-1R0MS	1.0	52	62	3.30	3.00	4.00	3.60
SDEM25201T-1R5MS	1.5	84	100	2.50	2.20	3.10	2.80
SDEM25201T-2R2MS	2.2	95	115	2.15	1.97	2.60	2.30
SDEM25201T-3R3MS	3.3	180	216	1.70	1.53	1.80	1.62
SDEM25201T-4R7MS	4.7	215	258	1.60	1.45	1.70	1.55
SDEM25201T-6R8MS	6.8	350	420	1.10	1.00	1.35	1.22
SDEM25201T-100MS	10.0	574	689	0.95	0.85	1.20	1.10
SDEM25201T-150MS	15.0	925	1,110	0.58	0.52	0.80	0.72
SDEM25201T-220MS	22.0	1,000	1,200	0.50	0.45	0.66	0.60

Back to 2520 SERIES TOP

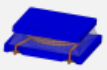
SDEM25201B (2.5*2.0*1.2mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDEM25201B-R47MS	0.47	26.0	32.0	4.50	4.00	5.50	5.00
SDEM25201B-R68MS	0.68	32.0	39.0	3.75	3.45	4.25	3.85
SDEM25201B-1R0MS	1.0	43.0	52.5	3.70	3.35	4.20	3.80
SDEM25201B-1R5MS	1.5	60.0	72.0	2.80	2.55	3.50	2.90
SDEM25201B-2R2MS	2.2	98.0	117.0	2.05	1.85	2.71	2.30
SDEM25201B-3R3MS	3.3	156.0	188.0	1.65	1.45	2.20	2.00
SDEM25201B-4R7MS	4.7	200.0	240.0	1.60	1.45	1.90	1.65
SDEM25201B-100MS	10.0	390.0	450.0	1.00	0.90	1.30	1.00
SDEM25201B-150MS	15.0	640.0	768.0	0.70	0.63	0.90	0.80
SDEM25201B-220MS	22.0	1000.0	1200.0	0.58	0.52	0.76	0.68

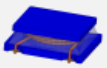
Back to 2520 SERIES TOP

SDET25200H (2.5*2.0*0.8mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
SDET25200H-R47MS	0.47	49	59	2.80	2.52	2.20	1.98
SDET25200H-1R0MS	1.0	119	143	1.70	1.53	1.75	1.57
SDET25200H-1R5MS	1.5	140	170	1.50	1.35	1.45	1.30
SDET25200H-2R2MS	2.2	165	199	1.36	1.22	1.14	1.02
SDET25200H-4R7MS	4.7	332	399	0.9	0.8	0.9	0.8
SDET25200H-6R8MS	6.8	560	669	0.75	0.65	0.65	0.55
SDET25200H-100MS	10.0	850	1,020	0.60	0.54	0.55	0.50

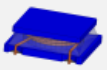
Back to 2520 SERIES TOP

SDET25201T (2.5*2.0*1.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
SDET25201T-R24MS	0.24	29	35	3.60	3.24	4.60	4.14
SDET25201T-R47MS	0.47	35	43	2.70	2.43	2.90	2.61
SDET25201T-R68MS	0.68	48	58	2.50	2.25	2.70	2.43
SDET25201T-1R0MS	1.0	67	81	1.98	1.78	2.10	1.89
SDET25201T-1R5MS	1.5	95	114	1.70	1.53	1.80	1.62
SDET25201T-2R2MS	2.2	135	162	1.50	1.35	1.55	1.39
SDET25201T-3R3MS	3.3	207	249	1.2	1.04	1.3	1.17
SDET25201T-4R7MS	4.7	269	323	1.08	0.97	1.20	1.08
SDET25201T-6R8MS	6.8	404	485	0.81	0.73	0.85	0.77
SDET25201T-100MS	10.0	507	609	0.80	0.72	0.73	0.65
SDET25201T-150MS	15.0	928	1,114	0.45	0.40	0.55	0.49
SDET25201T-220MS	22.0	1,312	1,574	0.35	0.31	0.45	0.40

Back to 2520 SERIES TOP

SDET25201B (2.5*2.0*1.2mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDET25201B-R47MS	0.47	24.0	28.5	3.70	3.35	3.90	3.50
SDET25201B-R68MS	0.68	31.0	36.0	3.30	2.97	2.90	2.60
SDET25201B-1R0MS	1.0	37.0	43.0	2.65	2.40	2.75	2.50
SDET25201B-1R5MS	1.5	63.0	72.0	2.30	2.07	2.35	2.12
SDET25201B-2R2MS	2.2	80.0	90.0	1.90	1.80	2.15	1.95
SDET25201B-3R3MS	3.3	140	155	1.50	1.35	1.70	1.60
SDET25201B-4R7MS	4.7	185	210	1.40	1.25	1.50	1.40
SDET25201B-100MS	10.0	359	408	0.90	0.81	0.87	0.80
SDET25201B-220MS	22.0	900	1,050	0.52	0.46	0.56	0.50

Back to 2520 SERIES TOP

VCTA25201B (2.5*2.0*1.2 mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCTA25201B-R10MS6	0.10	9.0	11.0	7.7	7.0	12.8	11.0
VCTA25201B-R33MS6	0.33	16.0	20.0	5.4	4.8	7.5	6.4
VCTA25201B-R47MS6	0.47	21.0	26.0	4.7	4.0	6.5	5.6
VCTA25201B-1R0MS6	1.0	35.0	42.0	3.8	3.4	4.8	4.2
VCTA25201B-1R5MS6	1.5	50.0	60.0	3.1	2.7	3.9	3.3
VCTA25201B-2R2MS6	2.2	70.0	84.0	2.6	2.2	3.5	3.0
VCTA25201B-3R3MS6	3.3	115.0	140.0	2.0	1.8	2.7	2.3
VCTA25201B-4R7MS6	4.7	165.0	200.0	1.7	1.4	2.2	2.0
VCTA25201B-6R8MS6	6.8	330.0	400.0	1.2	1.0	1.8	1.6

Back to 2520 SERIES TOP

3*3 SERIES

HMLQ32251T HMLQ32251B HMLE32251B HMLE32251E SDET32251B SDET32251E SDER031T SDER031B

VCTA32251B (Automotive-Grade)

HMLQ32251T (3.2*2.5*1.0 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLQ32251T-4R7MS	4.7	200	240	1.7	1.5	2.0	1.8

Back to 3*3 SERIES TOP

HMLQ32251B (3.2*2.5*1.2 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLQ32251B-R47MS	0.47	18	22	5.8	5.2	8.2	7.0
HMLQ32251B-2R2MS	2.2	70	85	3.2	2.9	4.0	3.6
HMLQ32251B-4R7MS	4.7	162	195	1.7	1.55	2.25	2.05

Back to 3*3 SERIES TOP

HMLE32251B (3.2*2.5*1.2 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLE32251B-R33MS	0.33	11.0	14.0	7.5	7.0	7.8	7.0

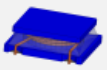
Back to 3*3 SERIES TOP

HMLE32251E (3.2*2.5*1.5 mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HMLE32251E-R47MSR	0.47	13	16	7.0	6.3	8.1	7.2
HMLE32251E-1R0MSR	1.0	27	33	4.4	4.0	5.1	4.6
HMLE32251E-2R2MSR	2.2	73	88	3.9	3.5	4.3	3.7

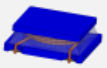
Back to 3*3 SERIES TOP

SDET32251B (3.2*2.5*1.2 mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
SDET32251B-1R0MS	1.0	51	62	2.60	2.34	3.50	3.10
SDET32251B-1R5MS	1.5	73	88	2.10	1.89	2.55	2.30
SDET32251B-2R2MS	2.2	125	150	1.80	1.62	2.40	2.16
SDET32251B-3R3MS	3.3	205	246	1.30	1.17	1.70	1.53
SDET32251B-4R7MS	4.7	227	273	1.10	0.99	1.50	1.35
SDET32251B-6R8MS	6.8	390	465	0.90	0.81	1.20	1.10
SDET32251B-100MS	10.0	410	488	0.80	0.72	1.10	1.00

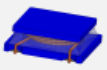
Back to 3*3 SERIES TOP

SDET32251E (3.2*2.5*1.5 mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
SDET32251E-1R5MS	1.5	45	54	2.50	2.20	2.60	2.30
SDET32251E-3R3MS	3.3	85	102	2.10	1.80	1.40	1.20
SDET32251E-4R7MS	4.7	90	108	1.90	1.70	1.30	1.17
SDET32251E-150MS	15.0	580	700	0.70	0.63	1.00	0.90
SDET32251E-220MS	22.0	880	1,012	0.60	0.54	0.90	0.81

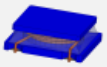
Back to 3*3 SERIES TOP

SDER031T (3.0*3.0*1.0 mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
SDER031T-1R0MS	1.0	62	74	2.60	2.34	2.90	2.60
SDER031T-2R2MS	2.2	89	107	1.70	1.53	1.60	1.44
SDER031T-4R7MS	4.7	166	199	1.30	1.17	1.0	0.9
SDER031T-6R8MS	6.8	249	299	1.05	0.95	0.85	0.75
SDER031T-100MS	10.0	365	438	0.85	0.77	0.75	0.68
SDER031T-150MS	15.0	672	807	0.72	0.64	0.58	0.52
SDER031T-220MS	22.0	708	850	0.60	0.55	0.47	0.43
SDER031T-330MS	33.0	1,360	1,632	0.50	0.45	0.38	0.34

Back to 3*3 SERIES TOP

SDER031B (2.9*2.9*1.2mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDER031B-1R0MS	1.0	52	62	2.50	2.25	3.35	3.00
SDER031B-1R5MS	1.5	60	72	2.20	1.98	3.10	2.60
SDER031B-2R2MS	2.2	84	101	2.25	2.00	2.90	2.40
SDER031B-3R3MS	3.3	134	161	1.71	1.53	1.92	1.72
SDER031B-4R7MS	4.7	184	221	1.43	1.30	1.71	1.53
SDER031B-6R8MS	6.8	256	307	1.25	1.13	1.49	1.24
SDER031B-100MS	10.0	397	496	1.00	0.90	1.26	1.05
SDER031B-150MS	15.0	572	686	0.80	0.72	1.10	0.83
SDER031B-220MS	22.0	850	1,020	0.65	0.60	0.86	0.72
SDER031B-330MS	33.0	1,387	1,733	0.50	0.45	0.65	0.58
SDER031B-470MS	47.0	1,908	2,385	0.44	0.39	0.50	0.45

Back to 3*3 SERIES TOP

VCTA32251B (3.2*2.5*1.2 mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCTA32251B-R15MS6	0.15	10.0	12.0	6.8	6.0	11.6	10.0
VCTA32251B-R33MS6	0.33	13.0	16.0	5.8	5.3	9.5	8.5
VCTA32251B-R47MS6	0.47	18.0	22.0	5.1	4.6	8.2	7.0
VCTA32251B-1R0MS6	1.0	30.0	36.0	3.9	3.6	5.2	4.5
VCTA32251B-1R5MS6	1.5	45.0	54.0	3.4	3.1	4.3	3.7
VCTA32251B-2R2MS6	2.2	62.0	75.0	2.8	2.5	3.8	3.3
VCTA32251B-3R3MS6	3.3	105.0	127.0	2.2	2.0	2.9	2.5
VCTA32251B-4R7MS6	4.7	150.0	180.0	1.8	1.6	2.5	2.2
VCTA32251B-6R8MS6	6.8	250.0	300.0	1.5	1.3	2.3	2.0

Back to 3*3 SERIES TOP

4*4 SERIES

HBLQ041T HBLE041B HBLE041H SDER041T SDER041B SDER041H SDER043T CMLB041B CMLE041B CMLS041B
VCHA042A(Automotive-Grade) HCB44

HBLQ041T (4.3*4.3*1.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HBLQ041T-R47MSIA	0.47	17.5	21.0	7.5	6.5	8.0	7.0
HBLQ041T-2R2MSIA	2.2	82	100	2.9	2.6	4.3	3.5
HBLQ041T-3R3MSIA	3.3	130	158	2.4	2.2	3.1	2.7
HBLQ041T-4R7MSIA	4.7	148	182	2.2	2.0	2.3	2.0
HBLQ041T-6R8MSIA	6.8	210	255	1.75	1.6	2.1	1.7
HBLQ041T-100MSIA	10.0	280	336	1.65	1.5	1.7	1.45

Back to 4*4 SERIES TOP

HBLE041B (4.3*4.3*1.2mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HBLE041B-R47MSA	0.47	15	18	9.2	8.2	9.4	8.3
HBLE041B-1R0MSA	1.0	27	33	4.1	3.7	4.6	4.1
HBLE041B-2R2MSA	2.2	52	63	3.8	3.4	4.0	3.5
HBLE041B-3R3MSA	3.3	82	98	3.1	2.8	3.0	2.7
HBLE041B-4R7MSA	4.7	94	113	2.9	2.6	2.5	2.2
HBLE041B-100MSA	10.0	200	240	1.8	1.6	1.6	1.4

Back to 4*4 SERIES TOP

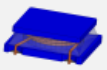
HBLE041H (4.3*4.3*1.8mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HBLE041H-R47MS	0.47	13	16	10.0	9.0	9.6	8.5
HBLE041H-R68MS	0.68	17	21	8.5	7.6	7.4	6.6
HBLE041H-1R0MS	1.0	21	26	7.0	6.3	7.0	6.3
HBLE041H-1R5MS	1.5	32	38.4	5.5	5.0	6.4	5.4
HBLE041H-2R2MS	2.2	39	46	4.7	4.2	5.2	4.5
HBLE041H-3R3MS	3.3	58	69	3.8	3.5	4.5	4.0

HBLE041H-4R7MS	4.7	70	84	3.5	3.1	3.2	2.7
HBLE041H-6R8MS	6.8	110	132	2.8	2.5	2.6	2.4
HBLE041H-100MS	10.0	160	192	2.1	1.9	2.2	2.0

Back to 4*4 SERIES TOP

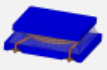
SDER041T (4.0*4.0*1.0mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDER041T-1R5MS	1.5	80	96	1.70	1.50	2.20	2.00
SDER041T-2R2MS	2.2	100	120	1.55	1.40	1.80	1.60
SDER041T-3R3MS	3.3	120	145	1.45	1.30	1.40	1.25
SDER041T-4R7MS	4.7	130	156	1.40	1.26	1.25	1.10
SDER041T-6R8MS	6.8	196	235	1.30	1.17	1.20	1.08
SDER041T-100MS	10.0	291	350	1.10	0.99	1.00	0.90

Back to 4*4 SERIES TOP

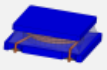
SDER041B (4.0*4.0*1.2mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDER041B-R47MS	0.47	28	33.6	3.90	3.50	4.25	3.60
SDER041B-2R2MS	2.2	69	83	2.70	2.43	2.00	1.80
SDER041B-4R7MS	4.7	109	131	1.90	1.71	1.45	1.30
SDER041B-6R8MS	6.8	130	156	1.70	1.53	1.20	1.08
SDER041B-100MS	10.0	190	228	1.45	1.30	1.10	1.00
SDER041B-150MS	15.0	339	407	1.05	0.95	0.80	0.72
SDER041B-220MS	22.0	410	492	0.95	0.855	0.70	0.63
SDER041B-470MS	47.0	850	1,020	0.50	0.45	0.46	0.41

Back to 4*4 SERIES TOP

SDER041H (4.0*4.0*1.8mm)

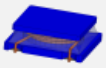


Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDER041H-R47MS	0.47	14	18	5.50	5.00	5.70	5.10
SDER041H-R68MS	0.68	19	25	5.00	4.50	5.60	5.00

SDER041H-1R0MS	1.0	20	25	4.30	3.80	3.85	3.50
SDER041H-1R2MS	1.2	25	30	3.80	3.40	3.70	3.30
SDER041H-1R5MS	1.5	33	40	3.40	3.05	3.60	3.20
SDER041H-1R8MS	1.8	34	41	3.20	2.85	3.20	2.90
SDER041H-2R2MS	2.2	35	45	3.10	2.80	3.10	2.80
SDER041H-3R3MS	3.3	45	56	2.75	2.50	2.45	2.20
SDER041H-4R7MS	4.7	69	83	2.30	2.07	2.05	1.85
SDER041H-5R6MS	5.6	80	96	2.20	2.00	1.90	1.70
SDER041H-6R8MS	6.8	90	115	2.10	1.90	1.75	1.60
SDER041H-8R2MS	8.2	105	132	1.80	1.60	1.65	1.44
SDER041H-100MS	10.0	134	169	1.50	1.35	1.60	1.40
SDER041H-150MS	15.0	185	222	1.45	1.30	1.10	1.00
SDER041H-220MS	22.0	250	315	1.20	1.08	0.95	0.85
SDER041H-330MS	33.0	405	486	0.90	0.81	0.70	0.63
SDER041H-470MS	47.0	495	594	0.80	0.72	0.62	0.56
SDER041H-680MS	68.0	885	1062	0.58	0.52	0.48	0.43
SDER041H-101MS	100.0	1545	1854	0.52	0.47	0.46	0.41

Back to 4*4 SERIES TOP

SDER043T (4.0*4.0*3.0mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDER043T-1R0MS	1.0	12	15	6.00	5.40	6.10	5.50
SDER043T-2R2MS	2.2	28	36.4	3.70	3.30	5.50	4.95
SDER043T-3R3MS	3.3	39.5	48	3.40	3.05	3.89	3.50
SDER043T-4R7MS	4.7	60	75	2.30	2.00	3.25	3.00
SDER043T-6R8MS	6.8	89	115	1.70	1.60	3.05	2.80
SDER043T-100MS	10.0	99	125	1.70	1.55	2.22	2.00
SDER043T-150MS	15.0	180	235	1.32	1.20	1.89	1.70
SDER043T-220MS	22.0	225	282	1.25	1.05	1.50	1.35
SDER043T-330MS	33.0	325	425	1.00	0.90	1.25	1.15
SDER043T-680MS	68.0	760	915	0.68	0.61	0.85	0.75
SDER043T-101MS	100.0	900	1,100	0.65	0.60	0.68	0.60
SDER043T-121MS	120.0	1,000	1,250	0.62	0.55	0.64	0.57

Back to 4*4 SERIES TOP

CMLB041B (4.45*4.75*1.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLB041B-R47MS	0.47	17.5	19.6	6.4	5.7	7.4	6.7
CMLB041B-R68MS	0.68	31.0	36.0	5.5	5.0	7.3	6.5
CMLB041B-1R0MS	1.0	42.0	46.5	5.0	4.3	5.5	5.0
CMLB041B-1R5MS	1.5	61.0	75.0	3.6	3.4	4.6	4.0
CMLB041B-2R2MS	2.2	75.4	83.0	3.3	2.8	3.8	3.4
CMLB041B-4R7MS	4.7	171.0	193.0	2.0	1.8	2.8	2.2
CMLB041B-6R8MS	6.8	320.0	368.0	1.7	1.5	2.2	1.9
CMLB041B-8R2MS	8.2	420.0	480.0	1.5	1.3	1.9	1.6

Back to 4*4 SERIES TOP

CMLE041B (4.75*4.45*1.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLE041B-R22MS	0.22	7.2	8.0	13.0	12.0	15.5	13.0
CMLE041B-R33MS	0.33	10.8	12.0	12.0	11.0	13.5	12.0
CMLE041B-R47MS	0.47	16.0	18.4	9.5	8.5	10.6	9.2
CMLE041B-R56MS	0.56	16.9	19.9	7.0	6.3	9.1	7.8
CMLE041B-1R0MS	1.0	29.0	34.5	5.5	4.7	7.0	6.0
CMLE041B-1R5MS	1.5	49.0	56.0	5.0	4.5	5.8	5.0
CMLE041B-2R2MS	2.2	74.0	82.0	3.7	3.3	4.4	3.8
CMLE041B-3R3MS	3.3	110.0	124.0	3.1	2.8	4.1	3.5
CMLE041B-4R7MS	4.7	124.0	145.0	2.4	2.1	3.2	2.8
CMLE041B-6R8MS	6.8	300.0	355.0	1.7	1.5	2.7	2.3

Back to 4*4 SERIES TOP

CMLS041B (4.45*4.75*1.8mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLS041B-R10MS	0.10	5.2	6.0	15.0	13.0	24.0	21.0
CMLS041B-R22MS	0.22	10.6	12.0	10.0	8.5	20.0	17.0
CMLS041B-R47MS	0.47	20.0	22.0	6.5	5.5	13.0	11.0

CMLS041B-1R0MS	1.0	46.0	52.0	4.6	4.1	8.5	7.0
CMLS041B-2R2MS	2.2	89.0	103.0	3.1	2.9	5.6	4.7

Back to 4*4 SERIES TOP

VCHA042A (4.2*4.0*2.1 mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA042A-R33MS6	0.33	5.8	7.0	10.9	9.8	13.5	11.5
VCHA042A-R47MS6	0.47	6.3	7.6	10.6	9.5	10.9	9.4
VCHA042A-R68MS6	0.68	8.6	10.3	9.1	8.2	9.5	8.1
VCHA042A-1R0MS6	1.0	9.1	10.5	8.9	8.0	7.9	6.7
VCHA042A-1R5MS6	1.5	13.4	15.4	7.3	6.5	6.2	5.3
VCHA042A-2R2MS6	2.2	20.9	23.0	5.8	5.3	5.3	4.5
VCHA042A-3R3MS6	3.3	33.4	36.8	4.6	4.1	4.0	3.4
VCHA042A-4R7MS6	4.7	48.6	53.8	4.0	3.6	3.7	3.2
VCHA042A-5R6MS6	5.6	61.8	71.1	3.4	3.0	2.9	2.5
VCHA042A-6R8MS6	6.8	80.5	92.5	2.9	2.6	2.6	2.2
VCHA042A-8R2MS6	8.2	103.0	118.5	2.6	2.3	2.5	2.1
VCHA042A-100MS6	10.0	112.0	129.0	2.5	2.2	2.4	2.0

Back to 4*4 SERIES TOP

HCB44 (4.0*4.0*4.0mm)

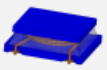
Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB44-500	50	0.32 ± 25%		19		32	
HCB44-500A	50	0.32 ± 10%		19		32	
HCB44-650	65	0.32 ± 25%		19		24	
HCB44-650A	65	0.32 ± 10%		19		24	
HCB44L-650	65	0.29 ± 0.02		20.5		24	

Back to 4*4 SERIES TOP

5*5 SERIES

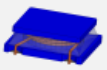
SDES053T SDEI054T SDES052T CMLB051B CMLS051B CMLE051E CMLB051H CMLE053T CMLB053T
VCMT053T(Automotive-Grade)

SDES053T (4.9*4.9*3.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
SDES053T-1R0MS	1.0	15	18	7.65	6.9	8.45	7.6
SDES053T-1R2MS	1.2	17	20	6.30	5.67	7.50	6.75
SDES053T-1R5MS	1.5	20	25	6.25	5.63	6.95	6.20
SDES053T-2R2MS	2.2	23	28	6.00	5.40	5.80	5.22
SDES053T-3R3MS	3.3	28	34	5.50	4.90	5.00	4.50
SDES053T-4R7MS	4.7	41	50	4.80	4.30	4.00	3.60
SDES053T-6R8MS	6.8	58	70	3.70	3.30	3.50	3.15
SDES053T-8R2MS	8.2	72	87	3.20	2.88	3.10	2.80
SDES053T-100MS	10.0	85	102	3.05	2.75	2.70	2.40
SDES053T-220MS	22.0	180	220	1.80	1.60	1.80	1.60
SDES053T-330MS	33.0	255	307	1.50	1.35	1.60	1.44
SDES053T-470MS	47.0	334	401	1.20	1.08	1.20	1.08
SDES053T-560MS	56.0	444	532.8	0.90	0.80	1.15	1.04
SDES053T-680MS	68.0	529	634.8	0.85	0.77	1.10	1.00

Back to 5*5 SERIES TOP

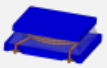
SDEI054T (4.9*4.9*4.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
SDEI054T-1R0MS	1.0	8.0	11.0	6.85	6.17	10.5	9.40
SDEI054T-1R5MS	1.5	13.0	16.0	5.50	4.90	9.00	8.0
SDEI054T-2R2MS	2.2	14.2	17.5	5.40	4.90	7.50	6.70
SDEI054T-3R3MS	3.3	20.0	25.0	4.60	4.14	6.40	5.76
SDEI054T-4R7MS	4.7	27.0	34.0	3.60	3.24	5.00	4.50
SDEI054T-6R8MS	6.8	41.0	50.0	3.15	2.84	4.55	4.10
SDEI054T-100MS	10.0	53.0	63.0	3.10	2.80	3.60	3.20
SDEI054T-120MS	12.0	69.0	83.0	2.70	2.43	3.30	3.00
SDEI054T-150MS	15.0	79.0	99.0	2.30	2.00	2.80	2.45
SDEI054T-220MS	22.0	119.0	149.0	2.10	1.90	2.40	2.10

SDEI054T-330MS	33.0	169.0	211.0	1.50	1.30	1.95	1.75
SDEI054T-470MS	47.0	235.0	294.0	1.35	1.20	1.60	1.44
SDEI054T-101MS	100.0	470.0	589.0	0.90	0.80	1.00	0.90

Back to 5*5 SERIES TOP

SDES052T (4.9*4.9*2.0mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDES052T-1R0MS	1.0	17.0	21.0	4.8	4.32	6.3	5.7
SDES052T-1R5MS	1.5	23.0	27.5	4.2	3.8	5.0	4.5
SDES052T-2R2MS	2.2	26.0	32.0	4.0	3.6	4.2	3.8
SDES052T-3R3MS	3.3	42.0	51.0	2.7	2.4	3.3	3.0
SDES052T-4R7MS	4.7	52.0	63.0	2.7	2.4	3.1	2.8
SDES052T-6R8MS	6.8	74.0	88.0	2.30	2.05	2.60	2.35
SDES052T-100MS	10.0	114.0	137.0	1.8	1.62	1.65	1.50

Back to 5*5 SERIES TOP

CMLB051B (5.4*5.75*1.2mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLB051B-R68MS	0.68	22.0	26.0	6.6	5.9	8.9	7.6
CMLB051B-1R0MS	1.0	32.0	36.5	5.5	5.1	8.7	7.4
CMLB051B-1R5MS	1.5	50.0	58.0	4.5	4.0	6.0	5.0
CMLB051B-2R2MS	2.2	66.0	76.0	3.6	3.0	4.5	3.8
CMLB051B-3R3MS	3.3	84.0	96.0	3.1	2.8	3.8	3.4
CMLB051B-4R7MS	4.7	144.0	163.0	2.3	2.0	3.5	2.9
CMLB051B-6R8MS	6.8	220.0	245.0	2.0	1.85	2.4	2.2

Back to 5*5 SERIES TOP

CMLS051B (5.4*5.75*1.2mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLS051B-R10MS	0.10	4.4	5.1	16.0	15.0	35.0	30.0
CMLS051B-R47MS	0.47	17.5	19.0	6.6	5.9	20.0	17.0
CMLS051B-2R2MS	2.2	73.0	77.3	3.4	3.0	7.0	6.0

CMLS051B-3R3MS	3.3	98.0	112.0	2.8	2.5	5.8	5.0
CMLS051B-4R7MS	4.7	150.0	165.0	2.3	2.0	5.4	4.6

Back to 5*5 SERIES TOP

CMLE051E (5.4*5.75*1.5mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLE051E-R12MS	0.12	3.2	3.7	18.0	16.0	29.0	25.0
CMLE051E-R22MS	0.22	3.79	4.4	16.0	14.5	20.0	16.8
CMLE051E-R47MS	0.47	10.8	12.7	10.0	9.0	15.0	12.7
CMLE051E-R68MS	0.68	13.5	15.5	9.0	8.1	11.2	9.5
CMLE051E-1R0MS	1.0	19.0	23.0	6.5	5.8	10.0	8.5
CMLE051E-1R2MS	1.2	29.0	33.7	5.3	4.7	8.0	6.5
CMLE051E-2R2MS	2.2	45.0	52.0	5.0	4.0	7.0	6.0
CMLE051E-3R3MS	3.3	60.0	72.0	3.5	3.1	5.1	4.3
CMLE051E-4R7MS	4.7	88.0	100.0	3.1	2.7	4.2	3.7
CMLE051E-100MS	10.0	152.0	170.0	2.1	1.9	3.1	2.7

Back to 5*5 SERIES TOP

CMLB051H (5.4*5.75*1.8mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLB051H-R33MS	0.33	5.7	6.8	16.0	15.0	19.1	17.0
CMLB051H-R47MS	0.47	7.6	8.5	11.0	10.0	16.0	15.5
CMLB051H-R68MS	0.68	12.0	13.8	9.0	8.0	13.0	11.2
CMLB051H-1R0MS	1.0	15.0	18.0	8.5	7.5	10.0	8.6
CMLB051H-1R5MS	1.5	23.0	28.0	6.2	5.5	9.0	7.2
CMLB051H-2R2MS	2.2	30.0	35.0	5.2	4.7	7.0	6.0
CMLB051H-3R3MS	3.3	45.0	52.0	4.7	4.5	5.5	4.8
CMLB051H-4R7MS	4.7	70.0	81.0	3.5	3.2	4.5	3.9
CMLB051H-6R8MS	6.8	103.0	125.0	2.9	2.6	3.6	3.4
CMLB051H-100MS	10.0	139.0	154.0	2.5	2.3	3.3	2.8

Back to 5*5 SERIES TOP

CMLE053T (4.9*5.2*3.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLE053T-R20MS	0.20	2.2	2.5	26.0	23.0	20.5	18.0
CMLE053T-R47MS	0.47	5.0	5.9	14.2	12.7	14.0	12.0
CMLE053T-R68MS	0.68	7.0	8.5	12.2	10.9	12.5	10.5
CMLE053T-1R0MS	1.0	8.4	9.4	10.8	9.7	11.0	9.0
CMLE053T-1R5MS	1.5	14.7	17.0	8.2	7.2	9.5	8.0
CMLE053T-2R2MS	2.2	21.0	24.0	6.9	6.2	8.2	7.0
CMLE053T-3R3MS	3.3	29.7	36.0	5.8	5.2	7.3	6.6
CMLE053T-4R7MS	4.7	48.0	54.0	5.1	4.5	5.7	5.1
CMLE053T-6R8MS	6.8	72.0	84.0	3.7	3.1	4.2	3.6
CMLE053T-100MS	10.0	104.0	125.0	3.3	3.0	3.7	3.1

Back to 5*5 SERIES TOP

CMLB053T (4.9*5.2*3.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLB053T-R10MS	0.10	2.0	2.3	28.0	25.0	38.0	33.0
CMLB053T-R22MS	0.22	3.5	3.9	23.0	21.0	20.0	17.0
CMLB053T-R35MS	0.35	5.4	6.3	21.0	19.0	15.0	13.0
CMLB053T-R47MS	0.47	7.0	8.0	12.2	10.9	14.0	12.0
CMLB053T-R68MS	0.68	8.0	9.2	17.0	15.0	11.5	10.0
CMLB053T-1R0MS	1.0	10.5	12.0	15.0	13.0	10.0	8.5
CMLB053T-1R5MS	1.5	17.0	20.0	7.8	7.0	8.6	8.0
CMLB053T-2R2MS	2.2	25.0	29.0	8.5	7.5	8.0	6.5
CMLB053T-3R3MS	3.3	34.0	38.0	8.0	7.0	6.0	5.0
CMLB053T-4R7MS	4.7	52.0	60.0	5.5	5.0	4.0	3.5
CMLB053T-6R8MS	6.8	100.0	115.0	3.5	3.0	3.7	3.2

Back to 5*5 SERIES TOP

VCMT053T (5.45*5.25*3.0 mm) (Automotive-Grade)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMT053T-R68MN5	0.68	8.6	9.8	11.1	10.0	11.7	10.0
VCMT053T-1R0MN5	1.0	10.0	11.5	10.3	9.3	6.7	5.7
VCMT053T-1R5MN5	1.5	15.4	17.7	8.2	7.4	6.4	5.5
VCMT053T-2R2MN5	2.2	20.0	23.0	7.1	6.4	5.7	4.7
VCMT053T-3R3MN5	3.3	33.0	38.0	5.5	5.0	5.3	4.5
VCMT053T-4R7MN5	4.7	51.0	59.0	4.4	3.9	4.5	3.9
VCMT053T-6R8MN5	6.8	80.0	92.0	3.5	3.1	3.5	3.0
VCMT053T-100MN5	10.0	112.6	129.5	2.5	2.3	2.35	2.0
VCMT053T-150MN5	15.0	170.0	196.0	2.0	1.8	2.2	1.9

Back to 5*5 SERIES TOP

6*6 SERIES

HBLE061T HBLE061B HBLE061E SDES064T SDES064E CMLE061E CMLE063T CMLB063T CMLS063T CMLE064T
VCMT063T(Automotive-Grade)

HBLE061T (6.4*6.4*1.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HBLE061T-2R2MS	2.2	85	102	3.2	2.8	4.8	4.3
HBLE061T-4R7MS	4.7	144	172	2.2	2.0	2.8	2.5
HBLE061T-6R8MS	6.8	164	197	2.0	1.8	2.5	2.0
HBLE061T-100MS	10.0	259	310	1.6	1.4	2.1	1.9

Back to 6*6 SERIES TOP

HBLE061B (6.4*6.4*1.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HBLE061B-2R2MS	2.2	47	59	6.0	5.0	4.1	3.7
HBLE061B-4R7MS	4.7	86	103	3.2	2.8	3.6	3.2
HBLE061B-100MS	10.0	192	230	2.1	1.9	3.0	2.7

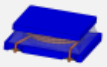
Back to 6*6 SERIES TOP

HBLE061E (6.4*6.4*1.5mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HBLE061E-2R2MS	2.2	37	45	6.5	5.5	5.0	4.5
HBLE061E-4R7MS	4.7	58	70	4.8	4.2	4.1	3.7
HBLE061E-6R8MS	6.8	86	104	3.1	2.8	3.6	3.2
HBLE061E-100MS	10.0	114	137	2.7	2.4	3.3	2.9

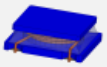
Back to 6*6 SERIES TOP

SDES64T (6.0*6.0*4.0mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDES064T-1R5MS	1.5	10.0	13.0	6.60	5.90	7.80	7.00
SDES064T-2R2MS	2.2	14.0	17.0	6.30	5.70	7.10	6.40
SDES064T-3R3MS	3.3	19.0	24.0	5.10	4.60	5.50	5.00
SDES064T-4R7MS	4.7	22.0	26.0	4.75	4.25	5.00	4.50
SDES064T-6R8MS	6.8	31.0	39.0	4.20	3.60	4.10	3.70
SDES064T-8R2MS	8.2	38.0	47.0	3.40	3.12	3.50	3.15
SDES064T-100MS	10.0	39.0	49.0	3.40	3.10	3.40	3.10
SDES064T-150MS	15.0	69.0	87.0	2.50	2.30	2.60	2.34
SDES064T-220MS	22.0	95.0	120.0	2.20	2.00	2.20	2.00
SDES064T-330MS	33.0	136.0	171.0	2.00	1.80	1.70	1.50
SDES064T-470MS	47.0	193.0	232.0	1.60	1.45	1.40	1.20
SDES064T-560MS	56.0	245.0	306.0	1.40	1.20	1.30	1.15
SDES064T-680MS	68.0	285.0	360.0	1.20	1.10	1.20	1.10
SDES064T-101MS	100.0	420.0	530.0	1.05	0.95	1.00	0.95
SDES064T-121MS	120.0	480.0	540.0	0.90	0.81	0.92	0.82
SDES064T-221MS	220.0	830	1040	0.64	0.58	0.71	0.64

Back to 6*6 SERIES TOP

SDES64E (6.0*6.0*4.5mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
SDES064E-R47MS	0.47	6.0	8.0	7.05	6.55	16.70	15.2
SDES064E-1R0MS	1.0	11.0	14.0	6.20	5.20	11.0	9.87
SDES064E-1R5MS	1.5	12.0	15.6	5.60	5.00	9.70	8.80
SDES064E-2R2MS	2.2	14.0	17.5	5.20	4.70	7.40	6.75
SDES064E-3R3MS	3.3	21.0	26.0	5.00	4.30	6.20	5.90
SDES064E-4R7MS	4.7	25.0	33.0	4.60	4.20	5.50	4.97
SDES064E-6R8MS	6.8	31.0	37.5	3.60	3.25	4.30	3.90
SDES064E-100MS	10.0	38.0	47.0	3.50	3.15	3.50	3.20
SDES064E-150MS	15.0	69.0	87.0	2.60	2.40	2.75	2.50
SDES064E-220MS	22.0	87.0	105.0	2.15	1.90	2.20	2.05

SDES064E-330MS	33.0	133.0	160.0	1.70	1.53	1.80	1.65
SDES064E-101MS	100.0	408.0	510.0	1.05	0.95	1.05	0.95

Back to 6*6 SERIES TOP

CMLE061E (6.724*7.241*1.5mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLE061E-R12MS	0.12	3.0	3.65	19.0	17.0	29.0	25.0
CMLE061E-R15MS	0.15	3.5	4.1	18.0	16.0	25.0	22.0
CMLE061E-R33MS	0.33	5.6	6.50	13.5	12.0	21.0	19.0
CMLE061E-R47MS	0.47	7.2	8.50	13.0	11.0	18.0	15.5
CMLE061E-R56MS	0.56	9.5	11.0	10.0	9.0	15.0	14.0
CMLE061E-R82MS	0.82	15.0	17.0	9.0	8.5	13.0	11.0
CMLE061E-1R0MS	1.0	18.5	21.0	8.2	7.6	12.0	10.0
CMLE061E-1R2MS	1.2	21.0	25.0	7.5	7.0	10.5	8.5
CMLE061E-1R5MS	1.5	25.0	28.0	7.2	6.7	8.5	7.7
CMLE061E-2R2MS	2.2	35.0	42.0	6.0	5.1	7.2	6.1
CMLE061E-3R3MS	3.3	54.0	63.0	3.8	3.3	6.0	5.2
CMLE061E-4R7MS	4.7	75.0	84.0	3.5	3.0	5.0	4.5
CMLE061E-6R8MS	6.8	110.0	130.0	3.0	2.5	4.5	4.0
CMLE061E-100MS	10.0	165.0	175.0	2.2	2.0	3.5	3.0

Back to 6*6 SERIES TOP

CMLE063T (6.8*7.3*3.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLE063T-R12MS0R657	0.12	0.65 ± 7%		41.5	37.5	48	42.5
CMLE063T-R15MS0R907	0.15	0.90 ± 7%		38	35	45	41
CMLE063T-R15MS0R905	0.15	0.90 ± 5%		38	35	45	41
CMLE063T-R15MS0R987	0.15	0.98 ± 7%		35	30	42	35
CMLE063T-R24MS1R197	0.24	1.19 ± 7%		35	31	38	32
CMLE063T-R22MS	0.22	1.15	1.3	37.0	32.0	38.0	32.0
CMLE063T-R36MS	0.36	2.3	2.55	25.0	23.0	31.0	28.0
CMLE063T-R47MS	0.47	2.9	3.3	23.0	20.0	25.0	23.0
CMLE063T-R68MS	0.68	4.6	5.2	16.5	15.5	18.5	17.0
CMLE063T-R82MS	0.82	4.7	5.4	16.0	14.5	18.0	15.6

CMLE063T-1R0MS	1.00	5.6	6.5	16.0	14.4	17.0	15.0
CMLE063T-1R5MS	1.50	7.7	8.9	12.0	11.0	15.0	14.0
CMLE063T-2R2MS	2.2	11.0	12.8	10.0	9.0	14.0	12.0
CMLE063T-3R3MS	3.3	18.5	21.0	8.0	7.0	11.0	10.0
CMLE063T-4R7MS	4.7	23.6	26.0	6.7	6.0	8.0	7.0
CMLE063T-6R8MS	6.8	41.0	48.0	5.5	5.0	7.0	6.1
CMLE063T-8R2MS	8.2	52.0	60.0	5.1	4.6	6.6	5.7
CMLE063T-100MS	10.0	59.0	66.0	4.2	3.8	6.2	5.5
CMLE063T-220MS	22.0	148.0	170.0	2.8	2.3	3.2	2.7

Back to 6*6 SERIES TOP

CMLB063T (6.8*7.3*3.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLB063T-R10MS	0.10	0.81	0.99	40.0	35.0	60.2	48.0
CMLB063T-R15MS	0.15	1.8	2.4	30.0	25.0	41.0	35.0
CMLB063T-R20MS	0.20	2.2	3.0	26.0	22.0	38.0	33.0
CMLB063T-R22MS	0.22	2.3	3.0	25.0	21.0	35.0	32.0
CMLB063T-R33MS	0.33	2.7	3.3	22.0	20.0	26.0	22.0
CMLB063T-R36MS	0.36	3.2	3.8	20.0	18.0	24.5	22.0
CMLB063T-R47MS	0.47	3.48	4.1	18.0	16.0	21.0	17.8
CMLB063T-R56MS	0.56	3.88	4.5	16.5	15.0	20.0	16.0
CMLB063T-R68MS	0.68	4.75	5.3	16.0	14.5	19.0	15.0
CMLB063T-R82MS	0.82	5.38	6.0	14.0	13.0	17.0	14.0
CMLB063T-1R0MS	1.0	6.6	7.25	13.0	11.2	16.5	13.5
CMLB063T-1R2MS	1.2	7.7	8.6	11.7	10.1	14.5	12.5
CMLB063T-1R5MS	1.5	9.1	10.5	11.0	9.5	14.2	12.0
CMLB063T-2R2MS	2.2	13.4	15.0	8.5	8.0	12.5	10.5
CMLB063T-3R3MS	3.3	17.9	22.0	7.2	6.2	9.6	8.5
CMLB063T-4R7MS	4.7	27.9	33.0	6.0	5.5	6.55	5.5
CMLB063T-5R6MS	5.6	39.0	42.0	5.7	5.0	6.35	5.05
CMLB063T-6R8MS	6.8	42.0	48.0	4.7	4.2	6.3	5.0
CMLB063T-8R2MS	8.2	53.9	60.0	4.5	3.8	6.05	4.92
CMLB063T-100MS	10.0	60.0	68.0	4.0	3.5	5.6	4.9
CMLB063T-150MS	15.0	132.5	150.0	2.7	2.4	3.8	3.3
CMLB063T-220MS	22.0	179.5	200.0	2.3	2.0	3.1	2.5

CMLB063T-330MS	33.0	274.0	284.0	2.1	1.8	2.3	2.0

Back to 6*6 SERIES TOP

CMLS063T (6.8*7.3*3.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLS063T-R10MS	0.10	0.8	1.0	33.0	28.0	70.0	60.0
CMLS063T-R15MS	0.15	1.9	2.3	27.0	24.0	61.0	53.0
CMLS063T-R20MS	0.20	2.4	2.7	26.0	23.0	48.0	42.0
CMLS063T-R22MS	0.22	2.4	2.7	26.0	23.0	46.0	41.0
CMLS063T-R33MS	0.33	3.3	3.8	23.0	20.0	38.0	32.0
CMLS063T-R47MS	0.47	3.81	4.1	18.0	16.5	30.0	26.0
CMLS063T-R68MS	0.68	4.7	5.4	16.0	14.0	26.0	21.0
CMLS063T-R82MS	0.82	6.4	7.5	14.0	13.0	24.0	20.0
CMLS063T-1R0MS	1.0	8.9	10.0	12.0	10.0	23.0	19.0
CMLS063T-1R5MS	1.5	12.0	14.0	9.0	8.0	21.0	18.5
CMLS063T-2R2MS	2.2	15.6	18.0	8.5	7.7	16.0	14.0
CMLS063T-3R3MS	3.3	26.0	29.0	7.5	6.5	14.0	12.0
CMLS063T-4R7MS	4.7	36.5	40.0	5.5	5.0	11.0	10.0
CMLS063T-6R8MS	6.8	53.5	60.0	4.5	4.0	8.5	7.5
CMLS063T-100MS	10.0	90.0	105.0	3.2	2.8	7.3	6.3

Back to 6*6 SERIES TOP

CMLE064T (6.8*7.6*5.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLE064T-R15MS0R667	0.15	0.66 ± 7%		40.0	37.0	50.0	46.0
CMLE064T-R15MS0R675	0.15	0.67 ± 5%		40.0	37.0	50.0	46.0
CMLE064T-R15MS0R725	0.15	0.72 ± 5%		39.0	36.0	54.0	47.0
CMLE064T-R22MS0R987	0.22	0.98 ± 7%		38.0	34.0	35.5	28.5
CMLE064T-R24MS1R007	0.24	1.00 ± 7%		36.0	32.0	35.5	28.5
CMLE064T-R36MS1R407	0.36	1.40 ± 7%		30.0	25.0	26.0	23.0
CMLE064T-R42MS1R557	0.42	1.55 ± 7%		24.0	21.0	23.0	19.0

Back to 6*6 SERIES TOP

VCMT063T (6.0*7.3*3.0mm) (Automotive-Grade)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
VCMT063T-R47MN5T	0.47	3.85	4.62	17.0		16.3	
VCMT063T-1R0MN5T	1.0	6.5	7.8	13.0		12.5	
VCMT063T-1R5MN5T	1.5	10.9	12.5	10.5		9.0	
VCMT063T-2R2MN5T	2.2	15.0	16.5	9.0		8.0	
VCMT063T-3R3MN5T	3.3	22.5	26.0	7.5		7.5	
VCMT063T-4R7MN5T	4.7	31.5	33.4	6.0		6.0	
VCMT063T-6R8MN5T	6.8	41.5	46.8	5.5		4.5	
VCMT063T-100MN5T	10.0	61.0	70.5	4.0		3.5	
VCMT063T-150MN5T	15.0	96.0	110.0	3.2		2.8	
VCMT063T-220MN5T	22.0	163.0	174.0	2.5		2.4	

Back to 6*6 SERIES TOP

7*7 SERIES

VCHA075D (Automotive-Grade) HCB0770 HCB0732 HCB0730 HCB0740 HCB0747 HCB0750

VCHA075D (7.7*7.2*5.4mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA075D-1R5MS6	1.5	6.1	7.3	11.4	10.3	16.3	14.0
VCHA075D-2R2MS6	2.2	9.5	11.4	9.7	8.7	14.8	12.7
VCHA075D-3R3MS6	3.3	14.0	15.4	8.0	7.2	13.5	11.6
VCHA075D-4R7MS6	4.7	19.0	20.9	7.0	6.3	13.1	11.2
VCHA075D-5R6MS6	5.6	21.5	24.0	6.5	5.9	10.6	9.1
VCHA075D-6R8MS6	6.8	24.2	26.6	6.1	5.5	10.2	8.7
VCHA075D-8R2MS6	8.2	29.0	31.9	5.6	5.0	9.0	7.7
VCHA075D-100MS6	10.0	34.5	38.0	5.2	4.7	8.0	6.9
VCHA075D-150MS6	15.0	60.0	66.0	3.8	3.4	6.9	5.9
VCHA075D-220MS6	22.0	85.0	93.5	3.3	3.0	6.3	5.4
VCHA075D-330MS6	33.0	116.0	127.6	2.8	2.5	4.9	4.2
VCHA075D-470MS6	47.0	156.0	171.6	2.4	2.2	4.1	3.5
VCHA075D-680MS6	68.0	222.0	255.0	2.0	1.8	2.8	2.4

Back to 7*7 SERIES TOP

HCB0770 (7.5*7.0*7.2mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0770-900	90	0.71 ± 10%		33		85	
HCB0770-101	100	0.71 ± 10%		33		75	
HCB0770-121	120	0.71 ± 10%		33		60	
HCB0770-151	150	0.71 ± 10%		33		45	
HCB0770-181	180	0.71 ± 10%		33		35	
HCB0770-221	220	0.71 ± 10%		33		30	
HCB0770-900L	90	0.35 ± 10%		48		85	
HCB0770-101L	100	0.35 ± 10%		48		75	
HCB0770-121L	120	0.35 ± 10%		48		60	
HCB0770-151L	150	0.35 ± 10%		48		45	
HCB0770-181L	180	0.35 ± 10%		48		35	

HCB0770-221L	220	0.35 ± 10%		48		30

Back to 7*7 SERIES TOP

HCB0732 (7.0*7.0*3.2mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0732-151	150	0.24 ± 10%		39		18	
HCB0732-171	170	0.24 ± 10%		39		16	

Back to 7*7 SERIES TOP

HCB0730 (7.0*7.0*3.4mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0730-470	47	0.24 ± 10%		39		42	
HCB0730-680	68	0.24 ± 10%		39		32	
HCB0730-820	82	0.24 ± 10%		39		26	
HCB0730-101	100	0.24 ± 10%		39		22	
HCB0730-111	110	0.24 ± 10%		39		20	
HCB0730-121	120	0.24 ± 10%		39		18	
HCB0730-470H	47	0.30 ± 10%		35		42	
HCB0730-680H	68	0.30 ± 10%		35		32	
HCB0730-820H	82	0.30 ± 10%		35		26	
HCB0730-101H	100	0.30 ± 10%		35		22	
HCB0730-111H	110	0.30 ± 10%		35		20	
HCB0730-121H	120	0.30 ± 10%		35		18	
HCB0730-470L	47	0.15± 15%		49		42	
HCB0730-680L	68	0.15 ± 15%		49		32	
HCB0730-820L	82	0.15± 15%		49		26	
HCB0730-101L	100	0.15 ± 15%		49		22	
HCB0730-111L	110	0.15 ± 15%		49		20	

Back to 7*7 SERIES TOP

HCB0740 (7.0*7.0*4.0mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0740-850	85	0.28 ± 10%		36		47	
HCB0740-101	100	0.28 ± 10%		36		39	
HCB0740-151	150	0.28 ± 10%		36		26	
HCB0740-201	200	0.28 ± 10%		36		18	
HCB0740-850L	85	0.24 ± 10%		39		47	
HCB0740-101L	100	0.24 ± 10%		39		39	
HCB0740-151L	150	0.24 ± 10%		39		26	
HCB0740-201L	200	0.24 ± 10%		39		18	

Back to 7*7 SERIES TOP

HCB0747 (7.4*7.0*4.7mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0747-101	100	0.26 ± 10%		38		45	
HCB0747-121	120	0.26 ± 10%		38		37	
HCB0747-151	150	0.26 ± 10%		38		27	
HCB0747-181	180	0.26 ± 10%		38		20	
HCB0747-221	220	0.26 ± 10%		38		15	
HCB0747-101L	100	0.18 ± 10%		55		45	
HCB0747-121L	120	0.18 ± 10%		55		37	
HCB0747-151L	150	0.18 ± 10%		55		27	
HCB0747-181L	180	0.18 ± 10%		55		20	
HCB0747-221L	220	0.18 ± 10%		55		15	
HCB0747S-101L	100	0.17 ± 10%		56		42	
HCB0747S-151L	150	0.17 ± 10%		56		27	

Back to 7*7 SERIES TOP

HCB0750 (7.0*7.0*5.0mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0750-700	70	0.32 ± 9.5%		37		75	
HCB0750-101	100	0.32 ± 9.5%		37		53	
HCB0750-121	120	0.32 ± 9.5%		37		42	
HCB0750-151	150	0.32 ± 9.5%		37		34	
HCB0750-700H2	70	0.46 ± 6.5%		31		75	
HCB0750-101H2	100	0.46 ± 6.5%		31		53	
HCB0750-121H2	120	0.46 ± 6.5%		31		42	
HCB0750-151H2	150	0.46 ± 6.5%		31		34	
HCB0750-700L	70	0.19 ± 10%		48		75	
HCB0750-101L	100	0.19 ± 10%		48		53	
HCB0750-121L	120	0.19 ± 10%		48		42	
HCB0750-151L	150	0.19 ± 10%		48		34	
HCB0750-700L2	70	0.25 ± 10%		41		75	
HCB0750-101L2	100	0.25 ± 10%		41		53	
HCB0750-121L2	120	0.25 ± 10%		41		42	
HCB0750-151L2	150	0.25 ± 10%		41		34	

Back to 7*7 SERIES TOP

8*8 SERIES

VCHA085D (Automotive-Grade) HCB0840

VCHA085D (8.7*8.2*5.4mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA085D-1R0MS6	1.0	4.0	4.8	15.5	14.0	22.0	18.9
VCHA085D-3R3MS6	3.3	9.8	11.8	10.1	9.1	16.3	14.0
VCHA085D-4R7MS6	4.7	13.0	15.6	8.8	7.9	16.0	13.7
VCHA085D-150MS6	15.0	44.0	52.8	4.9	4.4	7.8	6.7
VCHA085D-220MS6	22.0	56.0	67.0	4.1	3.7	7.2	6.2
VCHA085D-470MS6	47.0	122.0	135.0	2.9	2.6	5.6	4.8

Back to 8*8 SERIES TOP

HCB0840 (8.0*7.0*4.0mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0840-151	150	0.5 ± 6%		28		34	

Back to 8*8 SERIES TOP

9*9 SERIES

HCB0950

HCB0950 (9.0*7.0*5.0mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB0950-101	100	0.37 ± 6 %		37		60	
HCB0950-151	150	0.37 ± 6 %		37		42	
HCB0950-181	180	0.37 ± 6 %		37		33	
HCB0950-231	230	0.37 ± 6 %		37		24	
HCB0950-301	300	0.37 ± 6 %		37		21	
HCB0950-351	350	0.37 ± 6 %		37		16	

Back to 9*9 SERIES TOP

10*10 SERIES

CMLS104T CMLB104T CMLE104T VCMT104T(Automotive-Grade) VCMI104T(Automotive-Grade)
VCMI105T(Automotive-Grade) VCHA105D(Automotive-Grade) VCHA106T (Automotive-Grade)
VAMV1009AA(Automotive-Grade) HCB1050 HCBD101195 HCB1075N HCB106480N HCB1070 HCB1040 HCB1047
HCB1060 HCB1065 HCB1068

CMLS104T (10.3*11.5*4.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLS104T-R15MS	0.15	0.50	0.65	52.0	48.0	100.0	90.0
CMLS104T-R22MS	0.22	0.85	0.95	40.0	35.0	90.0	75.0
CMLS104T-R36MS	0.36	1.1	1.25	30.0	27.0	70.0	60.0
CMLS104T-R56MS	0.56	1.6	1.8	25.0	22.0	45.0	40.0
CMLS104T-R68MS	0.68	1.8	2.1	22.0	20.0	43.0	37.0
CMLS104T-1R0MS	1.0	2.7	3.2	20.0	18.0	41.0	36.0
CMLS104T-1R5MS	1.5	3.8	4.2	16.0	14.0	38.0	33.0
CMLS104T-2R2MS	2.2	6.4	7.0	12.5	11.0	27.0	23.0
CMLS104T-3R3MS	3.3	10.8	11.8	10.7	10.0	25.5	21.0
CMLS104T-4R7MS	4.7	15.2	16.5	9.6	8.5	19.0	17.0
CMLS104T-5R6MS	5.6	17.0	19.3	9.0	8.0	18.0	16.0

Back to 10*10 SERIES TOP

CMLB104T (10.3*11.5*4.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLB104T-R15MS	0.15	0.45	0.55	41.0	36.0	76.0	64.0
CMLB104T-R22MS	0.22	0.82	0.93	36.0	32.0	61.0	59.0
CMLB104T-R36MS	0.36	1.05	1.18	33.0	29.0	51.0	42.0
CMLB104T-R47MS	0.47	1.3	1.5	32.0	28.0	46.0	40.0
CMLB104T-R56MS	0.56	1.59	1.8	25.0	23.0	33.5	28.0
CMLB104T-1R0MS	1.0	2.85	3.3	19.0	17.0	29.0	26.0
CMLB104T-1R5MS	1.5	3.8	4.2	16.0	15.0	22.0	18.0
CMLB104T-2R2MS	2.2	6.0	7.0	12.0	11.0	20.0	16.0
CMLB104T-3R3MS	3.3	10.5	12.0	10.0	9.0	16.2	13.5
CMLB104T-4R7MS	4.7	16.8	20.0	8.5	7.6	15.2	13.0
CMLB104T-5R6MS	5.6	19.8	23.0	8.0	7.2	14.1	11.5

CMLB104T-6R8MS	6.8	22.0	24.5	7.8	6.5	12.0	9.5
CMLB104T-8R2MS	8.2	24.0	26.5	7.6	6.2	9.0	8.0
CMLB104T-100MS	10.0	27.0	30.0	7.5	5.8	8.6	7.2
CMLB104T-150MS	15.0	39.5	45.0	6.3	5.0	8.0	6.9
CMLB104T-220MS	22.0	59.0	66.0	5.0	4.0	6.2	5.4
CMLB104T-330MS	33.0	84.0	91.0	4.4	3.5	5.5	5.0
CMLB104T-470MS	47.0	129.0	143.0	3.3	2.8	4.0	3.7

Back to 10*10 SERIES TOP

CMLE104T (10.3*11.5*4.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLE104T-R22MS0R607	0.22	0.6 ± 7%		50.0	45.0	72.0	66.0
CMLE104T-R36MS0R765	0.36	0.76 ± 5%		43.0	38.0	50.0	45.0
CMLE104T-R45MS1R007	0.45	1.0 ± 7%		35.0	32.0	48.0	43.0
CMLE104T-R56MS1R407	0.56	1.4 ± 7%		30.0	28.0	38.0	35.0
CMLE104T-R68MS1R607	0.68	1.6 ± 7%		28.0	25.0	34.0	31.0
CMLE104T-R88MS2R307	0.88	2.3 ± 7%		27.0	24.0	33.0	28.5
CMLE104T-1R0MS2R307	1.0	2.3 ± 7%		25.0	22.5	32.0	28.0

Back to 10*10 SERIES TOP

VCMT104T (11.2*10.3*4mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMT104T-R47MN5	0.47	1.53	1.68	34.0		21.0	
VCMT104T-1R0MN5	1.0	2.7	3.1	23.0		18.0	
VCMT104T-3R3MN5	3.3	9.94	11.8	11.0		12.0	
VCMT104T-4R7MN5	4.7	13.2	15.0	9.8		11.0	
VCMT104T-6R8MN5	6.8	18.5	21.5	9.1		8.5	
VCMT104T-8R2MN5	8.2	25.3	29.0	7.7		7.1	
VCMT104T-100MN5	10.0	28.5	33.0	7.5		6.0	
VCMT104T-150MN5	15.0	42.5	49.0	6.0		5.4	
VCMT104T-220MN5	22.0	60.4	68.0	5.0		4.6	
VCMT104T-330MN5	33.0	89.0	102.0	4.0		3.6	
VCMT104T-470MN5	47.0	164.0	188.0	3.0		3.2	

Back to 10*10 SERIES TOP

VCMI104T (11.2*10.3*4mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMI104T-150MN53	15.0	47.0	52.0	5.1	4.6	6.5	5.6
VCMI104T-330MN53	33.0	89.0	102.0	4.0	3.5	4.2	3.6

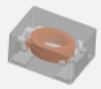
Back to 10*10 SERIES TOP

VCMI105T (10.85*10.0*5.0mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMI105T-100MS5	10.0	23.5	27.0	9.7	8.7	12.0	10.3
VCMI105T-150MS5	15.0	37.0	43.0	6.7	6.0	9.4	8.1
VCMI105T-220MS5	22.0	60.0	69.0	5.3	4.8	7.8	6.6
VCMI105T-330MS5	33.0	86.6	100.0	4.4	4.0	6.4	5.5
VCMI105T-680MS5	68.0	176.0	211.0	3.2	2.9	4.6	3.9

Back to 10*10 SERIES TOP

VCHA105D (10.85*10.0*5.4mm) (Automotive-Grade)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA105D-1R0MS6	1.0	2.30	2.76	30.0	27.0	37.0	31.7
VCHA105D-2R2MS6	2.2	4.1	4.9	23.0	20.7	25.0	21.4
VCHA105D-3R3MS6	3.3	6.2	7.4	18.7	16.8	19.0	16.3
VCHA105D-4R7MS6	4.7	8.3	10.0	14.5	13.0	15.7	13.5
VCHA105D-6R8MS6	6.8	12.0	14.0	12.0	10.8	13.3	11.4
VCHA105D-100MS6	10.0	21.0	24.2	8.7	7.8	12.7	10.9
VCHA105D-150MS6	15.0	27.2	31.3	7.6	6.8	9.2	7.9
VCHA105D-220MS6	22.0	43.5	50.0	6.0	5.4	8.8	7.5
VCHA105D-330MS6	33.0	65.5	75.3	4.8	4.3	7.6	6.5
VCHA105D-470MS6	47.0	89.0	103.0	4.1	3.6	4.9	4.2
VCHA105D-680MS6	68.0	132.0	152.0	3.3	3.0	4.2	3.6

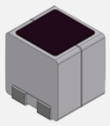
Back to 10*10 SERIES TOP

VCHA106T (10.85*10.0*5.8mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA106T-220MS6	22.0	40.0	46.0	5.6	5.0	9.2	7.9
VCHA106T-470MS6	47.0	68.0	75.0	4.3	3.9	5.9	5.1

Back to 10*10 SERIES TOP

VAMV1009AA (10.2*9.2*10.85mm) (Automotive-Grade)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VAMV1009AA-1R0MM2	1.0	3.3	4.0	13.0	12.0	50.0	43.0
VAMV1009AA-2R2MM2	2.2	5.0	6.0	10.0	9.0	32.0	27.5
VAMV1009AA-3R3MM2	3.3	7.5	8.6	9.0	8.0	26.0	23.4
VAMV1009AA-5R6MM2	5.6	14.0	16.8	6.4	5.8	19.0	16.0
VAMV1009AA-8R2MM2	8.2	17.4	20.0	6.0	5.4	14.0	12.0
VAMV1009AA-100MM2	10.0	18.0	22.0	5.8	5.2	12.0	10.0
VAMV1009AA-150MM2	15.0	34.0	40.8	4.5	4.0	9.0	7.7
VAMV1009AA-220MM2	22.0	46.0	56.0	3.6	3.2	8.5	7.3

Back to 10*10 SERIES TOP

HCB1050 (10.2*7.0*5.0mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1050-800L1	80	0.33 ± 6 %		40		92	
HCB1050-900L1	90	0.33 ± 6 %		40		83	
HCB1050-101L1	100	0.33 ± 6 %		40		75	
HCB1050-121L1	120	0.33 ± 6 %		40		63	
HCB1050-151L1	150	0.33 ± 6 %		40		48	
HCB1050-181L1	180	0.33 ± 6 %		40		40	
HCB1050-221L1	220	0.33 ± 6 %		40		34	
HCB1050-800	80	0.39 ± 7.7%		37		92	
HCB1050-900	90	0.39 ± 7.7%		37		83	

HCB1050-101	100	0.39 ± 7.7%	37	75
HCB1050-121	120	0.39 ± 7.7%	37	63
HCB1050-151	150	0.39 ± 7.7%	37	48
HCB1050-181	180	0.39 ± 7.7%	37	40
HCB1050-221	220	0.39 ± 7.7%	37	34
HCB1050-800H	80	0.55 ± 7.3%	31	92
HCB1050-900H	90	0.55 ± 7.3%	31	83
HCB1050-101H	100	0.55 ± 7.3%	31	75
HCB1050-121H	120	0.55 ± 7.3%	31	63
HCB1050-151H	150	0.55 ± 7.3%	31	48
HCB1050-181H	180	0.55 ± 7.3%	31	40
HCB1050-221H	220	0.55 ± 7.3%	31	34
HCB1050-800L	80	0.245 ± 7 %	46	92
HCB1050-900L	90	0.245 ± 7 %	46	83
HCB1050-101L	100	0.245 ± 7 %	46	75
HCB1050-121L	120	0.245 ± 7 %	46	63
HCB1050-151L	150	0.245 ± 7 %	46	48
HCB1050-181L	180	0.245 ± 7 %	46	40
HCB1050-221L	220	0.245 ± 7 %	46	34

Back to 10*10 SERIES TOP

HCBD101195 (10.1*11.4*9.5mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCBD101195-251	250	0.35 ±10%		40		90	
HCBD101195-271	270	0.35 ±10%		40		82	
HCBD101195-301	300	0.35 ±10%		40		76	
HCBD101195-321	320	0.35 ±10%		40		71	
HCBD101195-351	350	0.35 ±10%		40		65	
HCBD101195-451	450	0.35 ±10%		40		50	

Back to 10*10 SERIES TOP

HCB1075N (10.4*8.0*7.5mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1075N-121	115	0.29 ± 7%		41		94	
HCB1075N-151	150	0.29 ± 7%		41		72	
HCB1075N-181	175	0.29 ± 7%		41		62	
HCB1075N-211	215	0.29 ± 7%		41		48	
HCB1075N-231	230	0.29 ± 7%		41		43	
HCB1075N-271	270	0.29 ± 7%		41		37	
HCB1075N-311	310	0.29 ± 7%		41		32	
HCB1075N-121A	115	0.29 ± 5%		41		94	
HCB1075N-151A	150	0.29 ± 5%		41		72	
HCB1075N-181A	175	0.29 ± 5%		41		62	
HCB1075N-211A	215	0.29 ± 5%		41		48	
HCB1075N-231A	230	0.29 ± 5%		41		43	
HCB1075N-271A	270	0.29 ± 5%		41		37	
HCB1075N-311A	310	0.29 ± 5%		41		32	

Back to 10*10 SERIES TOP

HCB106480N (9.6*6.4*8.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB106480N-101	100	0.29 ± 5%		51		95	
HCB106480N-121	120	0.29 ± 5%		51		81	
HCB106480N-151	150	0.29 ± 5%		51		66	
HCB106480N-181	180	0.29 ± 5%		51		54	
HCB106480N-221	220	0.29 ± 5%		51		45	
HCB106480N-281	280	0.29 ± 5%		51		35	
HCB106480N-301	300	0.29 ± 5%		51		33	
HCB106480N-331	330	0.29 ± 5%		51		29	

Back to 10*10 SERIES TOP

HCB1070 (10.0*10.0*7.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1070-151	150	0.6 ± 10%		30		78	
HCB1070-221	220	0.6 ± 10%		30		52	
HCB1070-151L	150	0.44 ± 10%		35		78	
HCB1070-221L	220	0.44 ± 10%		35		52	

Back to 10*10 SERIES TOP

HCB1040 (10.2*7.0*4.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1040-101	100	0.36 ± 10%		37		54	
HCB1040-151	150	0.36 ± 10%		37		34	
HCB1040-201	200	0.36 ± 10%		37		24	
HCB1040-221	220	0.36 ± 10%		37		22	

Back to 10*10 SERIES TOP

HCB1047 (10.4*7.0*4.7mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1047-101L	100	0.235 ± 10%		47		60	
HCB1047-151L	150	0.235 ± 10%		47		40	
HCB1047-221L	220	0.235 ± 10%		47		25	
HCB1047-101	100	0.38 ± 10%		37		60	
HCB1047-151	150	0.38 ± 10%		37		40	
HCB1047-221	220	0.38 ± 10%		37		25	

Back to 10*10 SERIES TOP

HCB1060 (10.0*8.2*6.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1060-161	160	0.45 ± 8%		40		60	

HCB1060-181	180	0.45 ± 8%	40	52
HCB1060-211	210	0.45 ± 8%	40	45

Back to 10*10 SERIES TOP

HCB1065 (10.4*8.0*6.5mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1065-121	120	0.48 ± 8%		51		92	
HCB1065-151	150	0.48 ± 8%		51		74	
HCB1065-181	180	0.48 ± 8%		51		60	
HCB1065-211	215	0.48 ± 8%		51		47	
HCB1065-311	310	0.48 ± 8%		51		32	
HCB1065-121L	120	0.29 ± 10%		60		87	
HCB1065-151L	150	0.29 ± 10%		60		70	
HCB1065-181L	180	0.29 ± 10%		60		57	
HCB1065-211L	215	0.29 ± 10%		60		44	
HCB1065-311L	310	0.29 ± 10%		60		30	
HCB1065-121L1	120	0.41 ± 10%		54		92	
HCB1065-151L1	150	0.41 ± 10%		54		74	
HCB1065-181L1	180	0.41 ± 10%		54		60	
HCB1065-211L1	215	0.41 ± 10%		54		47	
HCB1065-311L1	310	0.41 ± 10%		54		32	
HCB1065-121L2	120	0.28 ± 7%		61		84	
HCB1065-151L2	150	0.28 ± 7%		61		67	
HCB1065-181L2	180	0.28 ± 7%		61		56	
HCB1065-211L2	215	0.28 ± 7%		61		45	
HCB1065-311L2	310	0.28 ± 7%		61		30	

Back to 10*10 SERIES TOP

HCB1068 (10.4*8.5*6.8mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1068-151	150	0.22 ± 10%		57		60	
HCB1068-211	215	0.22 ± 10%		57	41	52	

Back to 10*10 SERIES TOP

11*11 SERIES

HCB117555 HCB118050 HCB1175 HCB1180 HCB1190 HCB1145

HCB117555 (10.9*7.5*5.5mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB117555-101	100	0.25 ± 7%		54		88	
HCB117555-121	120	0.25 ± 7%		54		75	
HCB117555-151	150	0.25 ± 7%		54		57	
HCB117555-181	180	0.25 ± 7%		54		48	
HCB117555-221	220	0.25 ± 7%		54		38	
HCB117555-271	270	0.25 ± 7%		54		30	
HCB117555-321	320	0.25 ± 7%		54		24	
HCB117555-101L	100	0.20 ± 7%		60		88	
HCB117555-121L	120	0.20 ± 7%		60		75	
HCB117555-151L	150	0.20 ± 7%		60		57	
HCB117555-181L	180	0.20 ± 7%		60		48	
HCB117555-221L	220	0.20 ± 7%		60		38	
HCB117555-271L	270	0.20 ± 7%		60		30	
HCB117555-321L	320	0.20 ± 7%		60		24	

Back to 11*11 SERIES TOP

HCB118050 (11.0*8.0*5.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB118050-121	120	0.35 ± 8.6%		46		75	
HCB118050-151	150	0.35 ± 8.6%		46		60	
HCB118050-181	180	0.35 ± 8.6%		46		48	
HCB118050-221	220	0.35 ± 8.6%		46		40	
HCB118050-301	300	0.35 ± 8.6%		46		28	

Back to 11*11 SERIES TOP

HCB1175 (11.0*7.2*7.2mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1175-121	120	0.29 ± 7%		48		76	
HCB1175-151	150	0.29 ± 7%		48		70	
HCB1175-181	180	0.29 ± 7%		48		56	
HCB1175-201	200	0.29 ± 7%		48		52	
HCB1175-231	230	0.29 ± 7%		48		44	
HCB1175-281	280	0.29 ± 7%		48		36	
HCB1175-301	300	0.29 ± 7%		48		34	
HCB1175-361	360	0.29 ± 7%		48		25	
HCB1175-401	400	0.29 ± 7%		48		23	
HCB1175-501	500	0.29 ± 7%		48		17	
HCB1175-121H	120	0.47 ± 10%		37		76	
HCB1175-151H	150	0.47 ± 10%		37		70	
HCB1175-181H	180	0.47 ± 10%		37		56	
HCB1175-201H	200	0.47 ± 10%		37		52	
HCB1175-231H	230	0.47 ± 10%		37		44	
HCB1175-281H	280	0.47 ± 10%		37		36	
HCB1175-301H	300	0.47 ± 10%		37		34	
HCB1175-361H	360	0.47 ± 10%		37		25	
HCB1175-401H	400	0.47 ± 10%		37		23	
HCB1175-501H	500	0.47 ± 10%		37		17	
HCB1175-121L	120	0.245 ± 10%		52		76	
HCB1175-151L	150	0.245 ± 10%		52		70	
HCB1175-181L	180	0.245 ± 10%		52		56	
HCB1175-201L	200	0.245 ± 10%		52		52	
HCB1175-231L	230	0.245 ± 10%		52		44	
HCB1175-281L	280	0.245 ± 10%		52		36	
HCB1175-301L	300	0.245 ± 10%		52		34	
HCB1175-361L	360	0.245 ± 10%		52		25	
HCB1175-401L	400	0.245 ± 10%		52		23	
HCB1175-501L	500	0.245 ± 10%		52		17	

Back to 11*11 SERIES TOP

HCB1180 (11.2*11.2*8.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1180-221	220	0.35 ± 10%		45		66	
HCB1180-261	260	0.35 ± 10%		45		57	
HCB1180-301	300	0.35 ± 10%		45		49	
HCB1180-321	320	0.35 ± 10%		45		47	
HCB1180-391	390	0.35 ± 10%		45		37	
HCB1180-471	470	0.35 ± 10%		45		30	

Back to 11*11 SERIES TOP

HCB1190 (11.2*11.2*9.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1190-221	220	0.63 ± 9.5%		35		79	79
HCB1190-251	250	0.63 ± 9.5%		35		63	63
HCB1190-271	270	0.63 ± 9.5%		35		58	58
HCB1190-321	320	0.63 ± 9.5%		35		53	53
HCB1190-361	360	0.63 ± 9.5%		35		48	48
HCB1190-381	380	0.63 ± 9.5%		35		45	45
HCB1190-471	470	0.63 ± 9.5%		35		36	36
HCB1190-551	550	0.63 ± 9.5%		35		28	28
HCB1190-221L	220	0.31 ± 9.5%		50		79	79
HCB1190-251L	250	0.31 ± 9.5%		50		63	63
HCB1190-271L	270	0.31 ± 9.5%		50		58	58
HCB1190-321L	320	0.31 ± 9.5%		50		53	53
HCB1190-361L	360	0.31 ± 9.5%		50		48	48
HCB1190-381L	380	0.31 ± 9.5%		50		45	45
HCB1190-471L	470	0.31 ± 9.5%		50		36	36
HCB1190-551L	550	0.31 ± 9.5%		50		28	28
HCB1190-221L1	220	0.42 ± 9.5%		42		79	79
HCB1190-251L1	250	0.42 ± 9.5%		42		63	63
HCB1190-271L1	270	0.42 ± 9.5%		42		58	58
HCB1190-321L1	320	0.42 ± 9.5%		42		53	53
HCB1190-361L1	360	0.42 ± 9.5%		42		48	48

HCB1190-381L1	380	0.42 ± 9.5%	42	45	45
HCB1190-471L1	470	0.42 ± 9.5%	42	36	36
HCB1190-551L1	550	0.42 ± 9.5%	42		28
HCB1190-221L2	220	0.48 ± 7%	39		79
HCB1190-251L2	250	0.48 ± 7%	39		63
HCB1190-271L2	270	0.48 ± 7%	39		58
HCB1190-321L2	320	0.48 ± 7%	39		53
HCB1190-361L2	360	0.48 ± 7%	39		48
HCB1190-381L2	380	0.48 ± 7%	39		45
HCB1190-471L2	470	0.48 ± 7%	39		36
HCB1190-551L2	550	0.48 ± 7%	39	28	28

Back to 11*11 SERIES TOP

HCB1145 (11.5*7.0*4.5mm)

	L0 Inductance	DCR		Heat rating current, Idc		Saturation current, Isat	
	(nH)	(mOhm)		(A)		(A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1145-361	360	0.56 ± 8%		31		20	

Back to 11*11 SERIES TOP

12*12 SERIES

HCB1260 HCB1280 HCB1290 HCB121060 HCB126030 HCB126032 HCB126034 HCB1245 HCB1275

HCB1260 (12.0*8.0*6.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1260-151	150	0.42 ± 7%		38		70	
HCB1260-211	210	0.42 ± 7%		38		53	

Back to 12*12 SERIES TOP

HCB1280 (12.5*11.0*8.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1280-321	320	0.25 ± 10%		52		52	

Back to 12*12 SERIES TOP

HCB1290 (12.5*11.0*9.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1290-221	220	0.33 ± 7%		42		85	
HCB1290-301	300	0.33 ± 7%		42		62	
HCB1290-681	680	0.33 ± 7%		42		22	

Back to 12*12 SERIES TOP

HCB121060 (12.1*10.0*6.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB121060-121	120	0.48 ± 7%		36		84	
HCB121060-181	180	0.48 ± 7%		36		64	
HCB121060-211	215	0.48 ± 7%		36		53	
HCB121060-231	230	0.48 ± 7%		36		47	
HCB121060-321	320	0.48 ± 7%		36		34	
HCB121060-361	360	0.48 ± 7%		36		30	
HCB121060-421	420	0.48 ± 7%		36		25	

HCB121060-121L	120	0.29 ± 7%	45	84
HCB121060-181L	180	0.29 ± 7%	45	64
HCB121060-211L	215	0.29 ± 7%	45	53
HCB121060-231L	230	0.29 ± 7%	45	47
HCB121060-321L	320	0.29 ± 7%	45	34
HCB121060-361L	360	0.29 ± 7%	45	30
HCB121060-421L	420	0.29 ± 7%	45	25

Back to 12*12 SERIES TOP

HCB126030 (12.1*6.0*3.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB126030-141	140	0.25 ± 10%		35		25	
HCB126030-171	170	0.25 ± 10%		35		25	

Back to 12*12 SERIES TOP

HCB126032 (12.0*6.0*3.2mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB126032-201	200		0.30	33		24	

Back to 12*12 SERIES TOP

HCB126034 (12.0*6.0*3.4mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB126034-201	200		0.30	33		24	

Back to 12*12 SERIES TOP

HCB1245 (12.5*7.0*4.5mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1245-361	360	0.58 ± 8%		30		21	

Back to 12*12 SERIES TOP

HCB1275 (12.0*7.5*7.5mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1275-231	230	0.29 ± 10%		44		51	

Back to 12*12 SERIES TOP

13*13 SERIES

CMLB135T CMLS135T CMLB136T CMLS136E VCMT136E(Automotive-Grade) HCB1340 HCB138040 HCB1380 HCB137590 HCB1370

CMLB135T (12.8*13.8*5.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLB135T-R47MS	0.47	0.90	1.05	38.5	34.2	55.0	47.4
CMLB135T-R68MS	0.68	1.34	1.55	35.0	30.5	54.0	46.0
CMLB135T-1R0MS	1.0	1.8	2.2	30.0	27.0	36.0	32.5
CMLB135T-2R2MS	2.2	3.98	5.00	20.5	19.0	25.0	22.0
CMLB135T-3R3MS	3.3	5.5	7.0	15.5	14.0	22.5	19.5
CMLB135T-4R7MS	4.7	8.5	10.3	13.0	11.5	17.2	14.5
CMLB135T-100MS	10.0	18.9	22.0	9.0	8.1	13.0	10.5
CMLB135T-150MS	15.0	30.0	35.0	7.0	6.3	8.0	6.8
CMLB135T-220MS	22.0	50.0	58.0	5.5	5.0	6.6	5.7

Back to 13*13 SERIES TOP

CMLS135T (12.8*13.8*5.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
CMLS135T-R47MS	0.47	1.05	1.3	38.0	34.0	75.0	65.0
CMLS135T-R56MS	0.56	1.30	1.5	35.0	31.0	71.0	61.0
CMLS135T-R68MS	0.68	1.48	1.7	34.0	30.0	70.0	60.0
CMLS135T-1R0MS	1.0	2.05	2.5	29.0	26.0	58.0	50.0
CMLS135T-1R5MS	1.5	3.30	4.1	24.2	21.2	49.0	38.0
CMLS135T-2R2MS	2.2	4.50	5.2	20.0	18.5	36.0	32.0
CMLS135T-3R3MS	3.3	7.50	8.6	15.0	13.5	33.0	28.4
CMLS135T-4R7MS	4.7	12.5	15.0	12.2	10.8	28.0	23.0
CMLS135T-6R8MS	6.8	15.0	18.5	11.0	9.0	23.0	20.0

Back to 13*13 SERIES TOP

CMLB136T (12.8*13.8*6.0mm)

	L0 Inductance	DCR		Heat rating current, Idc		Saturation current, Isat	
	(uH)	(mOhm)		(A)		(A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLB136T-8R2MS	8.2	13.5	16.0	11.0	10.0	16.0	13.5
CMLB136T-100MS	10.0	17.7	20.7	10.0	9.5	13.5	11.5
CMLB136T-120MS	12.0	19.8	23.0	9.0	8.0	13.0	11.0
CMLB136T-150MS	15.0	24.0	27.5	8.0	7.0	10.0	9.0
CMLB136T-220MS	22.0	33.0	39.0	7.0	6.5	7.6	6.9
CMLB136T-330MS	33.0	60.0	70.0	5.0	4.7	6.1	5.4
CMLB136T-470MS	47.0	78.0	88.0	4.5	4.0	5.7	5.2
CMLB136T-680MS	68.0	119.5	140.0	3.5	3.0	5.5	4.7
CMLB136T-101MS	100.0	178.0	198.0	3.0	2.7	4.0	3.5
CMLB136T-151MS	150.0	300.0	347.0	2.5	2.2	3.0	2.7

Back to 13*13 SERIES TOP

CMLS136E (12.8*13.8*6.5mm)

	L0 Inductance	DCR		Heat rating current, Idc		Saturation current, Isat	
	(uH)	(mOhm)		(A)		(A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLS136E-R68MS	0.68	1.45	1.68	35.0	32.0	75.0	70.0
CMLS136E-1R0MS	1.0	1.80	2.15	31.0	28.0	53.0	50.0
CMLS136E-1R3MS	1.3	2.2	2.5	28.5	27.5	52.0	49.0
CMLS136E-1R5MS	1.5	2.3	2.6	28.0	27.0	51.0	48.0
CMLS136E-1R8MS	1.8	2.7	3.1	25.0	24.0	49.0	47.0
CMLS136E-2R2MS	2.2	3.49	4.20	22.5	21.5	46.0	42.0
CMLS136E-3R3MS	3.3	3.75	4.40	22.0	20.0	42.0	40.0
CMLS136E-4R7MS	4.7	7.8	8.5	16.0	15.0	30.0	26.0
CMLS136E-5R6MS	5.6	9.0	10.5	14.0	12.5	28.0	24.0
CMLS136E-6R8MS	6.8	11.5	13.5	12.5	11.0	26.0	22.0
CMLS136E-8R2MS	8.2	14.0	16.0	11.5	10.0	21.0	19.0
CMLS136E-100MS	10.0	16.0	18.5	11.0	9.0	20.0	18.0
CMLS136E-150MS	15.0	32.0	37.0	8.5	7.5	15.0	13.0
CMLS136E-220MS	22.0	38.0	44.0	6.5	5.8	11.5	10.0

Back to 13*13 SERIES TOP

VCMT136E (13.8*12.8*6.5mm) (Automotive-Grade)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMT136E-1R0MN5	1.0	1.9	2.1	32.0		20.0	
VCMT136E-1R5MN5	1.5	2.7	3.0	26.0		18.0	
VCMT136E-2R2MN5	2.2	4.0	4.5	21.0		17.5	
VCMT136E-3R3MN5	3.3	5.0	6.0	18.3		17.0	
VCMT136E-4R7MN5	4.7	8.0	8.7	15.0		13.5	
VCMT136E-5R6MN5	5.6	9.3	10.0	14.0		12.0	
VCMT136E-6R8MN5	6.8	9.8	11.3	13.5		10.5	
VCMT136E-100MN5	10.0	15.2	17.2	11.0		9.2	
VCMT136E-150MN5	15.0	24.5	28.2	8.5		7.2	
VCMT136E-220MN5	22.0	35.5	40.0	7.0		6.3	
VCMT136E-330MN5	33.0	60.0	69.0	5.5		4.3	
VCMT136E-470MN5	47.0	90.0	104.0	4.2		3.8	

Back to 10*10 SERIES TOP

HCB1340 (13.0*7.0*4.0mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1340-151	150	0.25 ± 10%		45		46	
HCB1340-201	200	0.25 ± 10%		45		35	

Back to 13*13 SERIES TOP

HCB138040 (13.0*8.0*4.0mm)

Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB138040-111	110	0.27 ± 10%		45		67	
HCB138040-201	200	0.27 ± 10%		45		37	

Back to 13*13 SERIES TOP

HCB1380 (13.3*13.0*8.2mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1380-211	210	0.26 ± 9.4%		50		80	
HCB1380-251	250	0.26 ± 9.4%		50		66	
HCB1380-261	260	0.26 ± 9.4%		50		63	
HCB1380-321	320	0.26 ± 9.4%		50		47	
HCB1380-361	360	0.26 ± 9.4%		50		43	
HCB1380-441	440	0.26 ± 9.4%		50		34	
HCB1380-501	500	0.26 ± 9.4%		50		28	
HCB1380-211H	210	0.53 ± 11.5%		35		80	
HCB1380-251H	250	0.53 ± 11.5%		35		66	
HCB1380-261H	260	0.53 ± 11.5%		35		63	
HCB1380-321H	320	0.53 ± 11.5%		35		47	
HCB1380-361H	360	0.53 ± 11.5%		35		43	
HCB1380-441H	440	0.53 ± 11.5%		35		34	
HCB1380-501H	500	0.53 ± 11.5%		35		28	
HCB1380-211H1	210	0.32 ± 9.4%		45		80	
HCB1380-251H1	250	0.32 ± 9.4%		45		66	
HCB1380-261H1	260	0.32 ± 9.4%		45		63	
HCB1380-321H1	320	0.32 ± 9.4%		45		47	
HCB1380-361H1	360	0.32 ± 9.4%		45		43	
HCB1380-441H1	440	0.32 ± 9.4%		45		34	
HCB1380-501H1	500	0.32 ± 9.4%		45		28	
HCB1380-211L	210	0.165 ± 10%		68		80	
HCB1380-251L	250	0.165 ± 10%		68		66	
HCB1380-261L	260	0.165 ± 10%		68		63	
HCB1380-321L	320	0.165 ± 10%		68		47	
HCB1380-361L	360	0.165 ± 10%		68		43	
HCB1380-441L	440	0.165 ± 10%		68		34	
HCB1380-501L	500	0.165 ± 10%		68		28	

Back to 13*13 SERIES TOP

HCB137590 (13.3*7.5*9.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB137590-231	230	0.28 ± 10%		44		60	
HCB137590-271	270	0.28 ± 10%		44		53	

Back to 13*13 SERIES TOP

HCB1370 (13.0*13.0*7.0mm)

	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
HCB1370-321	320	0.25 ± 10%		52		35	

Back to 13*13 SERIES TOP

14*14 SERIES

HCB1440 HCB141390

HCB1440 (13.3*7.5*4.0mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB1440-121	125	0.225 ± 10%		48		53	
HCB1440-151	150	0.225 ± 10%		48		45	
HCB1440-161	160	0.225 ± 10%		48		44	
HCB1440-241	240	0.225 ± 10%		48		31	

Back to 14*14 SERIES TOP

HCB141390 (14.5*13.3*9.3mm)

 Part Number	L0 Inductance (nH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
HCB141390-451	450	0.24 ± 10%		43		45	
HCB141390-541	540	0.24 ± 10%		43		37	
HCB141390-601	600	0.24 ± 10%		43		33	
HCB141390-681	680	0.24 ± 10%		43		29	

Back to 14*14 SERIES TOP

17*17 SERIES

CMLB177T

CMLB177T (17.15*17.5*7.0mm)

	L0 Inductance	DCR		Heat rating current, Idc		Saturation current, Isat	
	(uH)	(mOhm)		(A)		(A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
CMLB177T-2R2MS	2.2	2.1	2.5	37	30	38	33
CMLB177T-3R3MS	3.3	3.4	3.95	29	26	30	26
CMLB177T-4R7MS	4.7	4.0	4.6	27	24	28	24
CMLB177T-6R8MS	6.8	6.5	7.5	21	19	25	22
CMLB177T-8R2MS	8.2	8.0	8.6	16	15	22	20
CMLB177T-100MS	10.0	9.2	9.9	14	13	20	18.5
CMLB177T-150MS	15.0	13.8	15.3	12	11	15.5	13.5
CMLB177T-200MS	20.0	19.4	21.9	9.7	8.7	13.0	11.0
CMLB177T-220MS	22.0	20	23	9.7	8.7	12.0	10.5
CMLB177T-330MS	33.0	32	37	9.2	8.0	10.5	8.6
CMLB177T-470MS	47.0	40	47	6.8	6.0	8.5	7.5
CMLB177T-680MS	68.0	73	85	5.2	4.7	8.0	6.8
CMLB177T-101MS	100.0	110	130	3.7	3.3	6.0	5.0

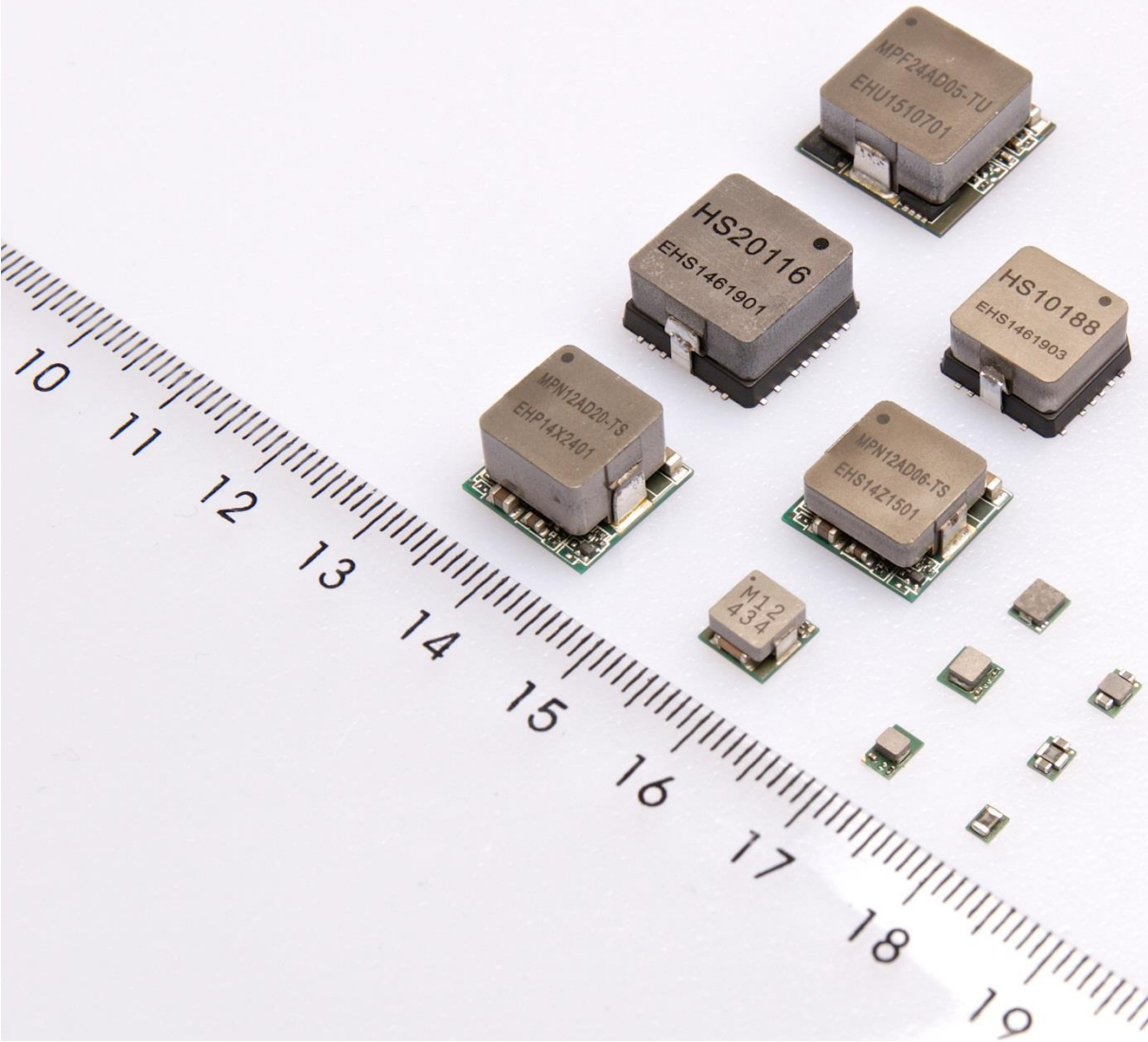
Back to 17*17 SERIES TOP

Power Module

Cyntec Power Modules are Point of Load (POL) DC-DC converters integrating controller chips, chokes and I/O capacitors into a single power management package for step-down(buck) or step-up(boost) applications. The low profile and compact size enables significant saving of board space, high efficiency enhances application performance, and design structure allows automated assembly by standard surface mount equipment. In service, Cyntec provides strong and timely design and development support for customized products and packages.

APPLICATION

- Miniature portable (1A, 2A, 3A): SSD, Smartphone, USB, DSP, MCU, Wearable, Video Surveillance, Small Cell, Industrial Control Circuit
- Industrial (5A, 6A, 12A, 20A): video system, video surveillance, base-station, FPGA, networking, server, switching, storage, IPC, industrial, equipment



PRODUCT SPECIFICATION

0.2A 0.6A 1A 2A 3A 5A 6A 10A 12A 20A 25A 30A 40A 60A Auto-Grade

0.2A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MMS0505R2-TT	4.5-5.5	5.0	19.6	6.0	10.2	5Vi/5Vo 76%Peak 85^0@0.2A

0.6A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MUN3C1HR6-FB	2.3~5.5	1.82	2.5	2.3	1.05	3.8Vi/1.82Vo 89.5%Peak No De-rating @ 0.6A
MUN3C1DR6-SB	2.7~5.5	1.35	2.5	2.0	1.1	3.3Vi/1.35 Vo 87.3%Peak No De-rating @ 0.6A
MUN3C1BR6-SB	2.7~5.5	1.2	2.5	2.0	1.1	3.3Vi/1.2Vo 85.5%Peak No De-rating @ 0.6A
MUN3C1HR6-SB	2.7~5.5	1.8	2.5	2.0	1.1	3.3Vi/1.8Vo 89.5%Peak No De-rating @ 0.6A
MMN3C1ER6-SB	2.7~5.5	1.5	2.5	2.0	1.05	3.3Vi/1.5Vo 88%Peak No De-rating @ 0.6A

1A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MUN3CAD01-SC	2.7~5.5	0.8~4.0 Adjustable	2.9	2.3	1.05	3.3Vi / 2.5Vo 94% Peak 77^0 @ 1A
MUN12AD01-SG	4.5~16.0	0.8~6.0 Adjustable	3.9	2.6	1.7	12.0Vi / 5Vo 94.5% Peak No De-rating @ 1A
MUN12AD01-SH	4.5~17.0	1.0~5.0 Adjustable	3.5	3.5	1.7	12.0Vi / 3.3Vo 89% Peak No De-rating @ 1A
MUN24AD01-SH	4.5~28.0	2.0~8.5 Adjustable	3.5	3.5	1.7	12.0Vi / 5.0Vo 91% Peak No De-rating @ 1A
MUN123C01-SGA	4.5~16.0	3.3	3.9	2.6	1.7	5Vi/3.3Vo 94%Peak No De-rating @ 1.0A-0LFM
MUN123C01-SGB	4.5~16.0	3.3	3.9	2.6	1.7	5Vi/3.3Vo 94%Peak

No De-rating @ 1.0A-0LFM

2A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MSN05AD02-SQ	4.0~8.0	12.0~16.0 Adjustable	10.0	9.0	6.5	5.0Vi / 15.0Vo 95% Peak De-rating 70.1℃@2A

3A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MUN3CAD03-SF	2.7~5.5	0.6~3.3 Adjustable	3.0	3.0	1.3	5.0Vi / 3.3Vo 94% Peak No De-rating @ 3A
MUN3CAD03-SH	2.75~5.5	0.6~3.3 Adjustable	3.5	3.5	1.7	5.0Vi / 3.3Vo 95% Peak No De-rating @ 3A
MUN12AD03-SE	4.5~7.0	0.6~5.5 Adjustable	3.0	2.8	1.5	12Vi/5Vo 92%Peak 58C @ 3A
MUN12AD03-SH	4.5~16.0	0.6~5.0 Adjustable	3.5	3.5	1.7	12.0Vi / 5.0Vo 91% Peak 62^0@ 3A
MUN20AD03-SH	8.0~24.0	8.0~24.0 Adjustable	3.5	3.5	1.5	12.0Vi / 5.0Vo 93% Peak De-rating 77℃@3A
MUN12AD03-SM	4.5~16.0	0.6~5.0 Adjustable	6.0	6.0	3.5	12.0Vi / 5.0Vo 92% Peak 82^0@ 3A
MUN20AD03-SM	9.0~24.0	0.6~5.5 Adjustable	6.0	6.0	3.5	20.0Vi/ 5.0Vo 93% Peak 76^0@ 3A
MUN24AD03-SM	8.0~34.0	5.0~12.0 Adjustable	6.0	6.0	3.5	24.0Vi / 5.0Vo 91% Peak 62^0@ 3A
MSN24VD03-GR	5.1~24	5.1~15	9.4	8.6	6.3	12.0Vi / 5.0Vo 96% Peak No De-rating @ 3A

5A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MUN12AD05-SMFL	4.5~20.0	0.6~1.8 Adjustable	6.0	6.0	3.5	12Vi/1.8Vo 86%Peak 83C @ 5A
MUN12AD05-SMFH	4.5~20.0	1.9~5.0 Adjustable	6.0	6.0	3.5	12Vi/5Vo 92%Peak 53C @ 5A

6A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	Dimension W (mm)	Dimension T (mm)	η %/De-rating
MUN12AD06-SM	7.0~24.0	0.6~15.0 Adjustable	6.0	6.0	3.5	12.0Vi / 5.0Vo 93% Peak 72^0 @ 6A
MPN12AD06-TS	4.5~16.0	0.6~5.5 Adjustable	12.19	12.19	5.4	12.0Vi / 5.0Vo 96% Peak 79^0 @ 6A

10A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	Dimension W (mm)	Dimension T (mm)	η %/De-rating
HM10107B	1.0~15.0	0.6~5.5 Adjustable	15.0	15.0	3.7	12.0Vi / 3.3Vo 93.0% Peak 64^0 @ 10A

12A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	Dimension W (mm)	Dimension T (mm)	η %/De-rating
MUN12AD12-MP	4.5~16.0	0.6~5.5 Adjustable	8.6	7.5	6.5	12.0Vi / 5.0Vo 96% Peak No De-rating @ 12A
MPN12AD12-TS	4.5~16.0	0.6~5.5 Adjustable	12.19	12.19	8.4	12.0Vi / 5.0Vo 96.5%Peak 78^0 @ 12A

20A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	Dimension W (mm)	Dimension T (mm)	η %/De-rating
MSN12AD20-MQ	4.5~15.0	0.6~5.5	10.0	9.0	6.5	12.0Vi / 5.0Vo 96% Peak 49^0 @ 20A
MPN12AD20-TS	4.5~14.5	0.6~5.0 Adjustable	12.19	12.19	8.4	12.0Vi / 5.0Vo 96.5% Peak 53^0 @ 20A
HS20116	4.5~20	0.8~5.5 Adjustable	14.5	14.5	7.45	12.0Vi/ 5.0Vo 96.0% Peak 43^0 @ 20A

25A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MSN12VD25-FQ	4.5~14.0	0.6~5.5	12.0	7.0	10.1	12Vi/3.3Vo 93.5%Peak 1.0Vo 78°C@25A-0LFM 3.3V0 58°C @25A-0LFM

30A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MSN12VD30-FR	4.5~14.0	0.5~2.5	14.2	7.8	6.35	12.0Vi / 1.0Vo 91% Peak De-rating 70℃@ 30A

40A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MSN12AD40-RUD	8.0~15	0.6~1.8	16.0	16.0	7.5	12.0Vi / 0.85Vo 90% Peak No De-rating @40A"

60A

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
MSN12D60-RUD	8.0~15	0.6~1.8	16.0	16.0	7.5	12.0Vi / 0.85Vo 87%Peak 55^0 @ 60A

Auto-Grade

Part Number	Input Voltage (V)	Output Voltage (V)	Dimension L (mm)	W (mm)	T (mm)	η %/De-rating
VUN12AD01-SH	4.5~28.0	2.0~8.5	3.5	3.5	1.7	12.0Vi / 5.0Vo 91% Peak De-rating @ 0.53A
VSN12AD02-MN	4.0~32.0	1.2~8.0	7.8	6.0	5.2	12.0Vi / 6Vo 94.5% Peak 90C@2A

RESISTORS

At Cyntec we do widely use combinations of substrate materials (ceramic, glass, silicon material, etc…) and processing technologies (photolithography, thick film technologies) to produce passive components such as chip resistors, resistor network and current sensors which provide the best design and performance solutions for the computer and communication products.

Chip Resistor

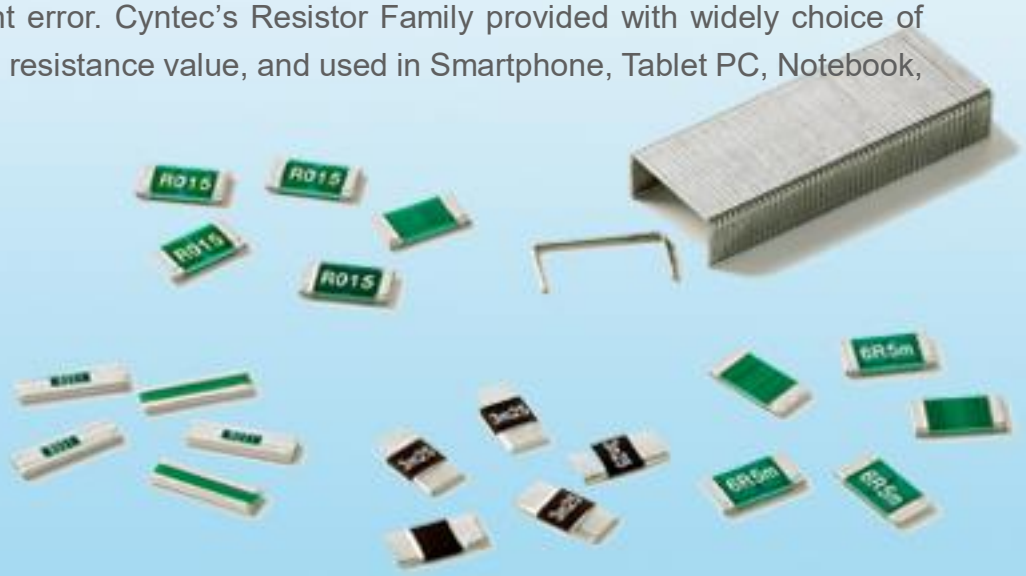
Cyntec offers various series of chip resistors based on thin film and thick film types to apply to all electronic equipment. The feature of chip resistor is high precision and miniaturization size that down to 01005size.

Resistor Network

Cyntec resistor network is an effective solution for high-density which can down to 0201*4 array. It also benefit for cost reduction and space-saving.

Current Sensing Resistor

Cyntec has developed a series of current sensing resistor which characterized with miniaturization down to 01005 size, high power up to 3W, high precision, and low TCR. Besides the thin film and thick film, we develop the new processing technology to bond metal foil and ceramic substrate together. Base on the new technical perform, we can keep the competitive strength of low TCR. Otherwise, we also designed 4Pin-4Wire Kelvin's measurement on pad directly to decrease the measurement error. Cyntec's Resistor Family provided with widely choice of power rating and resistance value, and used in Smartphone, Tablet PC, Notebook, and Server.



PRODUCT SPECIFICATION

CURRENT SENSING RESISTOR (Consumer-Grade)

0201 0402 0603 0805 1206 2010 2512 3720 7520 3637 3923

0201

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-0603-C	0603	0201	1/10W	0.020~<1.0	± 1%(F) ± 2%(G) ± 5%(J)	0.020~＜0.070Ω: 0~500 0.070 ~ 1.0Ω: ± 200
RL-0603-D	0603	0201	1/20W	0.020~<1.0	± 1%(F) ± 2%(G) ± 5%(J)	0.020~＜0.070Ω: 0~500 0.070 ~ 1.0Ω: ± 200
RLT0306-C	0603	0201	1/10W	0.5~<1.0 1.0~2.0	± 1%(F) ± 2%(G) ± 5%(J)	0.5~<1.0Ω: ±300 1.0~2.0Ω: ±200

Back to Product SPEC

0402

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-1005-1	1005	0402	1/16W	0.020~<1.0	±1%(F) ±2%(G) ±5%(J)	0.020 ~ <0.070Ω: 0~500 0.070 ~ 1.0Ω: ± 100
RL-1005-2	1005	0402	1/8W	0.020~<1.0	±1%(F) ±2%(G) ±5%(J)	0.020 ~ <0.070Ω: 0~500 0.070 ~ 1.0Ω: ± 100
RL-1005-7	1005	0402	1/6W	0.020~<1.0	±1%(F) ±2%(G) ±5%(J)	0.020 ~ <0.070Ω: 0~500 0.070 ~ 1.0Ω: ± 100
RLT0510-1	1005	0402	1/16W	0.065~<0.60 0.60~1.0	±1%(F) ±2%(G) ±5%(J)	0.065~<0.60Ω: ±300 0.60~1.0Ω: ±200
RLT0510-2	1005	0402	1/8W	0.065~<0.60 0.60~1.0	±1%(F) ±2%(G) ±5%(J)	0.065~<0.60Ω: ±300 0.60~1.0Ω: ±200
RLT0510-7	1005	0402	1/6W	0.065~<0.60 0.60~1.0	±1%(F) ±2%(G) ±5%(J)	0.065~<0.60Ω: ±300 0.60~1.0Ω: ±200

Back to Product SPEC

0603

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-0816-4	1608	0603	1/2W	0.010~<0.020 0.021~1.0	±1%(F) ±2%(G) ±5%(J)	0.010~0.020Ω: 0~350 0.021~1.0Ω: 0~250
RL-0816-F	1608	0603	1/3W	0.010~0.020 0.021~1.0	±1%(F) ±2%(G) ±5%(J)	0.010~0.020Ω: 0~350 0.021~1.0Ω: 0~250
RLT0816-2	1608	0603	1/8W	0.050~<10	±1%(F) ±2%(G) ±5%(J)	0.050~<0.10Ω: ±300 0.10~<10Ω: ±200
RLT0816-3	1608	0603	1/4W	0.05~<10	±1%(F) ±2%(G) ±5%(J)	0.050~<0.10Ω: ±300 0.10~<10Ω: ±200
RLT0816-C	1608	0603	1/10W	0.050~<10	±1%(F) ±2%(G) ±5%(J)	0.050~<0.10Ω: ±300 0.10~<10Ω: ±200
RLM-0816-3F	1608	0603	1/4W	0.0025 0.005~0.009 0.01~0.02	±1%(F) ±2%(G) ±5%(J)	0.0025Ω: ±400 0.005~0.009Ω: ±200 0.01~0.02Ω: ±75
RLM-0816-FF	1608	0603	1/3W	0.0025 0.005~0.009 0.01~0.02	±1%(F) ±2%(G) ±5%(J)	0.0025Ω: ±400 0.005~0.009Ω: ±200 0.01~0.02Ω: ±75
RLM-0816-4F	1608	0603	1/2W	0.0025 0.005~0.009 0.01~0.02	±1%(F) ±2%(G) ±5%(J)	0.0025Ω: ±400 0.005~0.009Ω: ±200 0.01~0.02Ω: ±75

Back to Product SPEC

0805

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-1220-4	2012	0805	1/2W	0.003; 0.005; 0.009~0.050	±1%(F) ±2%(G) ±5%(J)	0.003Ω: ±150; 0.005Ω: ±110; 0.009~0.050Ω: ±100
RLM-1220-6F	2012	0805	1W	0.003~0.010	±1%(F) ±2%(G) ±5%(J)	0.003~0.01Ω: ±100

RLM-1220-3F	2012	0805	1/4W	0.003~0.020	±1%(F) ±2%(G) ±5%(J)	0.003~0.020Ω: ±100
RLM-1220-4F	2012	0805	1/2W	0.003~0.020	±1%(F) ±2%(G) ±5%(J)	0.003~0.020Ω: ±100
RLM-1220-FF	2012	0805	1/3W	0.003~0.020	±1%(F) ±2%(G) ±5%(J)	0.003~0.020Ω: ±100
RL-1220-4S	2012	0805	1/2W	0.010~1.0	±1%(F) ±2%(G) ±5%(J)	0.010~1.0Ω: 0~250
RLW-2012-4	1220	0508	1/2W	0.005~0.030	±2%(G	0.005~0.030Ω: 0~200
RLW-2012-F	1220	0508	1/3W	0.005~0.030	±2%(G	0.005~0.030Ω: 0~200
RLW-2012-6	1220	0508	1W	0.005~0.030	±2%(G	0.005~0.030Ω: 0~200
RLT1220-3	2012	0805	1/4W	0.05~<10	±1%(F) ±2%(G) ±5%(J)	0.05~<0.1Ω: 0~+300 0.1~<10Ω: 0~+200
RLT1220-F	2012	0805	1/3W	0.05~<10	±1%(F) ±2%(G) ±5%(J)	0.05~<0.1Ω: 0~+300 0.1~<10Ω: 0~+200
SCRR0508WD	1220	0508	1/2W	0.02~0.450	±1%(F) ±2%(G) ±5%(J)	0.020~0.450Ω: ±150
SCRR0805SD	2012	0805	1/2W	0.05~1	1%(F) 2%(G) 5%(J)	0.050~0.099Ω: ±200 0.100~1.000Ω: ±100

Back to Product SPEC

1206

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RLM-1632-4F	1632	0612	1/2W	0.003~0.020	±1%(F) ±2%(G) ±5%(J)	0.003~0.020Ω: ±100
RLM-1632-6F	1632	0612	1W	0.003~0.020	±1%(F) ±2%(G) ±5%(J)	0.003~0.020Ω: ±100

RLT1632-F	3216	1206	1/3W	0.05 ~ <10	±1%(F) ±2%(G) ±5%(J)	0.05 ~ <0.1Ω: 0~+250 0.1~<10Ω: 0~+200
RLT1632-4	3216	1206	1/2W	0.05 ~ <10	±1%(F) ±2%(G) ±5%(J)	0.05 ~ <0.1Ω: 0~+250 0.1~<10Ω: 0~+200
RLT1632-6	3216	1206	1W	0.10<~1.000	±1%(F) ±2%(G) ±5%(J)	0.10<~1.000Ω: ±100
RLM-1632W-4F	3216	1206	1/2W	0.001/0.0015 0.002 0.0025 0.003~0.010	±1%(F) ±2%(G) ±5%(J)	0.001 / 0.0015Ω: ±200 0.002 / 0.0025Ω: ±150 0.003~0.010Ω: ±100
RLM-1632W-6F	3216	1206	1W	0.001 0.0015 0.002 0.0025 0.003~0.010	±1%(F) ±2%(G) ±5%(J)	0.001 / 0.0015Ω: ±200 0.002 / 0.0025Ω: ±150 0.003~0.010Ω: ±100
SCMM1206S1	3216	1206	1W	0.001~0.010	±1%(F) ±2%(G) ±5%(J)	0.001~0.010: ±75
SCMM1206SD	3216	1206	1/2W	0.001~0.200	±1%(F) ±2%(G) ±5%(J)	0.001~0.010Ω: ±75 0.011~0.200Ω: ±50
SCRR1206S1	3216	1206	1W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.015Ω: ±200 0.016~1.000Ω: ±100
SCRR1206SD	3216	1206	1/2W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.015Ω: ±200 0.016~1.000Ω: ±100
SCRR0612W1	1632	0612	1W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.030Ω: ±100 0.031~0.050Ω: ±150 0.051~1.000Ω: ±100
SCRR0612W2	1632	0612	2W	0.010~0.150	±1%(F) ±2%(G) ±5%(J)	0.010~0.0150Ω: ±200 0.091~0.150Ω: ±100

Back to Product SPEC

2010

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL2550W	2550	1020	1W	0.003~0.050	±1%(F) ±2%(G) ±5%(J)	0.003~<0.005Ω: ± 300 0.005~0.010Ω: ± 100
RLT2550-6	5025	2010	1W	0.05~1	±1%(F) ±2%(G) ±5%(J)	0.05~<0.45Ω:0~+200 0.45~1Ω:0~+75

Back to Product SPEC

2512

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RLD-3264-6F	3264	2512	1W	0.0005	±1%(F) ±2%(G) ±5%(J)	0.0005Ω: ±100
RLD-3264-9F	3264	2512	2W	0.0005	±1%(F) ±2%(G) ±5%(J)	0.0005Ω: ±100
RL-3264-9D	3264	2512	2W	0.003~0.1	±1%(F) ±2%(G) ±5%(J)	0.003~0.1Ω: ±100
RL-3264-6C	3264	2512	1W	0.003~0.1	±1%(F) ±2%(G) ±5%(J)	0.003~0.1Ω: ±100
SCMM2512S1	6432	2512	1W	0.0003~0.200	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±125 0.0005~0.0009Ω: ±75 0.001~0.200Ω: ±50
SCMM2512S2	6432	2512	2W	0.0003~0.020	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±100 0.0005~0.0009Ω: ±75 0.001~0.020Ω: ±50
SCMM2512S3	6432	2512	3W	0.0003~0.010	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±100 0.0005~0.0009Ω: ±75 0.001~0.010Ω: ±50
SCMM2512S5	6432	2512	5W	0.0003~0.001	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±150 0.0005~0.0009Ω: ±75 0.001Ω: ±50
SCRR2512S1	6432	2512	1W	0.010~1.000	±1%(F) ±2%(G)	0.010~0.019Ω: ±400 0.020~0.030Ω: ±250

					±5%(J)	0.031~0.050Ω: ±200 0.051~1.000Ω: ±100
SCRR2512S2	6432	2512	2W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.019Ω: ±400 0.020~0.030Ω: ±250 0.031~0.050Ω: ±200 0.051~1.000Ω: ±100

Back to Product SPEC

3720

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL3720WT	3720	1508	1W	0.001 0.003~~0.012	± 1%(F) ±2%(G) ± 5%(J)	0.001Ω: 0~500 0.003~0.012Ω: ±100

Back to Product SPEC

7520

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL7520T	7520	3008	1W	0.001~0.005, 0.010~0.020	± 1%(F) ±2%(G) ± 5%(J)	0.001W ~ 0.005W: ±100 0.010W ~ 0.020W: 0~200
RL7520WT	7520	3008	2W	0.001~0.005	± 1%(F) ±2%(G) ± 5%(J)	0.001~0.005Ω: ±100

Back to Product SPEC

3637

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-3637-0	9194	3637	3W	0.001~<0.002 0.002~0.010	±1%(F) ±2%(G) ±5%(J)	0.001~<0.002Ω: 0~150 0.002~0.010:Ω ±100

Back to Product SPEC

3923

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
SCMM3923S5	10075	3923	5W	0.0002~0.004	±1%(F) ±2%(G) ±5%(J)	0.0002~0.0003Ω: ±100 0.0005~0.0007Ω: ±75 0.001~0.004Ω: ±50
SCMM3923S7	10075	3923	7W	0.0002~0.002	±1%(F) ±2%(G) ±5%(J)	0.0002~0.0003Ω: ±100 0.0005~0.0007Ω: ±75 0.001~0.002Ω: ±50
SCMM3923S9	10075	3923	9W	0.0002~0.001	±1%(F) ±2%(G) ±5%(J)	0.0002~0.0003Ω: ±100 0.0005~0.0007Ω: ±75 0.001Ω: ±50

Back to Product SPEC

CURRENT SENSING RESISTOR (Automotive-Grade)

0805 1206 2512 3923

0805

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
VSRP0805SD	2012	0805	1/2W	0.05~1	±1%(F) ±2%(G) ±5%(J)	0.05~0.099:±200 0.10~1.000:±100
VSRP0508WD	1220	0508	1/2W	0.020~0.450	±1%(F) ±2%(G) ±5%(J)	0.02~0.45: ±150

Back to Product SPEC

1206

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
VSRP1206S1	3216	1206	1W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.015Ω: ±200 0.016~1.000Ω: ±100
VSRP1206SD	3216	1206	1/2W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.015Ω: ± 200 0.016~1.000Ω: ± 100
VSML1206SD	3216	1206	1/2W	0.001~0.200	±1%(F) ±2%(G) ±5%(J)	0.001~0.010Ω: ± 75 0.011~0.200Ω: ± 50
VSML1206S1	3216	1206	1W	0.001~0.010	±1%(F) ±2%(G) ±5%(J)	0.001~0.010: ±75
VSRP0612W1	1632	0216	1W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.030Ω: ±100 0.031~0.050Ω: ±150 0.051~1.000Ω: ±100
VSRP0612W2	1632	0612	2W	0.010~0.150	±1%(F) ±2%(G) ±5%(J)	0.010~0.0150Ω: ±200 0.091~0.150Ω: ±100

Back to Product SPEC

2512

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
VSML2512S1	6432	2512	1W	0.0003~0.200	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±125 0.0005~0.0009Ω: ±100 0.001~0.0049Ω: ±75 0.005~0.200Ω: ±50
VSRP2512S1	6432	2512	1W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.019Ω: ±400 0.020~0.030Ω: ±250 0.031~0.050Ω: ±200 0.051~1.000Ω: ±100
VSML2512S2	6432	2512	2W	0.0003~0.020	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±125 0.0005~0.0009Ω: ±100 0.001~0.0049Ω: ±75 0.005~0.020Ω: ±50
VSRP2512S2	6432	2512	2W	0.010~1.000	±1%(F) ±2%(G) ±5%(J)	0.010~0.019Ω: ±400 0.020~0.030Ω: ±250 0.031~0.050Ω: ±200 0.051~1.000Ω: ±100
VSML2512S3	6432	2512	3W	0.0003~0.010	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±125 0.0005~0.0009Ω: ±100 0.001~0.0049Ω: ±75 0.005~0.010Ω: ±50
VSML2512S5	6432	2512	5W	0.0005~0.001	±1%(F) ±2%(G) ±5%(J)	0.0003~0.0004Ω: ±150 0.0005~0.0009Ω: ±100 0.001Ω: ±75

Back to Product SPEC

3923

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
VSML3923S5	10075	3923	5W	0.0002~0.004	±1%(F) ±2%(G) ±5%(J)	0.0002~0.0003Ω: ±100 0.0005~0.0007Ω: ±75 0.001~0.004Ω: ±50
VSML3923S7	10075	3923	7W	0.0002~0.002	±1%(F) ±2%(G) ±5%(J)	0.0002~0.0003Ω: ±100 0.0005~0.0007Ω: ±75 0.001~0.002Ω: ±50
VSML3923S9	10075	3923	9W	0.0002~0.001	±1%(F) ±2%(G) ±5%(J)	0.0002~0.0003Ω: ±100 0.0005~0.0007Ω: ±75 0.001Ω: ±50

Back to Product SPEC

Shunt Sensor

6918 8420 8436

6918

Part Number	Dimension (mm)		Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance	TCR (ppm/℃)
	L	W				
VSME6918SY	69.25	18.0	36W	0.1	± 5%(J)	0.1mΩ: ±100
VSPE6918SY	69.25	18.0	36W	0.1	± 5%(J)	0.1mΩ: ±100

Back to Product SPEC

8420

Part Number	Dimension (mm)		Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance	TCR (ppm/℃)
	L	W				
VSME8420SY	84.0	20.0	36W	0.1	± 5%(J)	0.1mΩ: ±100
VSPE8420SY	84.0	20.0	36W	0.1	± 5%(J)	0.1mΩ: ±100

Back to Product SPEC

8436

Part Number	Dimension (mm)		Power Rating (W)	Resistance Value (mΩ)	Resistance Tolerance	TCR (ppm/℃)
	L	W				
VSME8436SY	84.0	36.0	36W	0.025	± 5%(J)	0.025mΩ: ±100
VSPE8436SY	84.0	36.0	36W	0.025	± 5%(J)	0.025mΩ: ±100

Back to Product SPEC

RESISTOR

03015 01005 0201 0402

03015

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RR0203S	03015	-	1/50W	10~1M	± 1%(F) ±2%(G) ± 5%(J)	10Ω~91Ω:-200~600 100Ω~1MΩ:±200

Back to Product SPEC

01005

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
PFR02S	0402	01005	1/32W	1~10M	±1%(F) ±2%(G) ±5%(J)	1.0~9.76Ω: +600~-200 10~91Ω: ±300 100~10MΩ: ±200
RR0204S	0402	01005	1/32W	1~10M	± 1%(F) ±2%(G) ± 5%(J)	1.0Ω~9.1Ω:-200~600 10Ω~91Ω:±300 100Ω~10MΩ:±200
RR0204SE	0402	01005	1/32W	10~1M	± 1%(F) ±2%(G) ± 5%(J)	10~91Ω: ±300 100~1MΩ: ±200

Back to Product SPEC

0201

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
PFR03S	0603	0201	1/20W	1~10M	±0.5%(D) ±1%(F) ±2%(G) ±5%(J)	1.0Ω~9.76Ω:+600~-200 10.0Ω~91Ω:±300 100Ω~10MΩ:±200
RR0306S	0603	0201	1/20W	1~10M	±0.5%(D) ± 1%(F) ±2%(G) ± 5%(J)	1.0Ω~9.1Ω:-200~600 10Ω~91Ω:±300 100Ω~10MΩ:±200
RR0306SE	0603	0201	1/20W	10~1M	±1%(F) ±2%(G) ±5%(J)	10.0Ω~91.0Ω:±300 100.0Ω~1MΩ:±200

Back to Product SPEC

0402

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
PFR05	1005	0402	1/16W	1~10M	±0.5%(D) ±1%(F) ±5%(J)	1.0Ω~9.76Ω:0~500 10.0Ω~97.6Ω:±100 100Ω~1MΩ:±50 10Ω~10MΩ:±200 1.02MΩ~10MΩ:±100 1KΩ~1.8MΩ:±25
RR0510	1005	0402	1/16W	1~10M	±0.5%(D) ±1.0%(F) ±5.00%(J)	1.0Ω~9.76Ω:0~500 10.0Ω~97.6Ω:±100 100Ω~1MΩ:±50 10Ω~10MΩ:±200 1KΩ~1.8MΩ:±25
RR0510SE	1005	0402	1/16W	10~1M	±1%(F) ±5%(J)	10.0Ω~1MΩ:±200

Back to Product SPEC

RESISTOR NETWORK

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RS062R	0.6*0.8	0201*2	0.031	10~1MΩ	±1.00%(F) ±5.00%(J)	±200
RS064R	0.6*1.4	0201*4	0.031	10~100KΩ 10~1MΩ	±1.00%(F) ±5.00%(J)	±200

Back to Product SPEC

PT SENSOR

The Platinum Resistance Temperature Detector (Pt-RTD) chip consists of a thin film Platinum film deposited on a high purity aluminum oxide substrate. In a chip form, the Pt-RTD provides a significant cost advantage compared to the conventional wire wound Pt-RTD. Due to the stability of the TCR of the platinum element, OTP Protection function, the highly advanced packaging materials, and processing technologies, the Pt-RTD in a chip form is able to withstand temperatures ranging from -260°C to 1000°C.

The main feature of Pt-RTD is the linear relationship between temperature and resistance value. It is a key characteristic needed to be able to measure temperature over a very wide range of operating temperatures. Pt-RTD will maintain a significant rate of range of resistance vs. temperature change in the high range of the operating temperature which is ideal for digital control, unlike PTC and NTC which do not provide such a performance at high temperature. As a thin film specialist, Cyntec provides Pt-RTD chips in a wide range of resistance values such as: 20, 100, 500, and 1000Ω with TCR of 3750 and 3850 PPM/°C and resistance tolerances of 0.06%, 0.12%, 0.24%, and 0.48%.

APPLICATION

Home Appliances, Industrial Equipment, Automotives, Medical, Electronics

PRODUCT SPECIFICATION

Part Number	Dimension		Nominal Resistance at 0°C	TCR (ppm/℃)	Operating Temperature Range
	sensor body	wire length			
SE10255018	3.2*1.6	None	1000Ω±0.48%	3750	-55°C~125°C
SA10160552	1.7*2.8	10.0	100Ω±0.06%	3850	-50°C~500°C
SA10100609	1.7*2.8	10.0	100Ω±0.12%	3850	-50°C~500°C
SA50160536	2.0*3.0	10.0	500Ω±0.06%	3850	-50°C~500°C
SA50100594	2.0*3.0	10.0	500Ω±0.12%	3850	-50°C~500°C
SA10260557	2.0*3.0	10.0	1000Ω±0.06%	3850	-50°C~500°C
SA10200542	2.0*3.0	10.0	1000Ω±0.12%	3850	-50°C~500°C
SI10210508	2.0*5.0	8.0	1000Ω±0.24%	3850	-50°C~750°C
SA10101553	ψ3.0*6.0	8.0	100Ω±0.12%	3850	-50°C~500°C
SA50101528	ψ3.0*6.0	8.0	500Ω±0.12%	3850	-50°C~500°C
SA10201521	ψ3.0*6.0	8.0	1000Ω±0.12%	3850	-50°C~500°C
SB10232500N	4.7*4.7	14.0	1000Ω±0.06%	3750	-20°C~105°C
SB10242506N	4.7*4.7	14.0	1000Ω±0.12%	3750	-20°C~105°C
CYN-8Y-001	ψ6.0*106.0	550.0	500Ω±0.24%	3850	-40°C~538°C
CYN-8Y-002	ψ5.0*78.0	152.0	1000Ω±0.4%	3750	-40°C~538°C
CYN-8Y-003	ψ5.0*180.0	152.0	1000Ω±0.4%	3750	-40°C~538°C
CYN-8Y-004	ψ5.0*78.0	450.0	1000Ω±0.4%	3750	-40°C~350°C
CYN-8Y-005	ψ5.0*124.0	725.0	1000Ω±0.4%	3850	-40°C~750°C

FUSE-RESISTANCE PROTECTOR

Cyntec has developed and produced a complete series of low profile and high stability FR-Protector (Fuse-Resistance Protector) with two protection functions for main application in lithium-ion battery pack including OCP (Over Current Protection) and OVP (Over Voltage Protection) to ensure the safety of battery module. The maximum re-flow temperature for FR-Protector is 260℃, which can be assembled by SMT and get effectively respond in a timely manner to the ever changing market demands. For committing to the continuous improvement on the quality and reliability of our products, FR-Protector receives UL Product Certification in recognition of our outstanding technology and product quality.

APPLICATION

Notebook, Tablet PC, Ultrabook, Automotive, Household Machine Tool, Camera, Printer, Smartphone, etc.

PRODUCT SPECIFICATION

4030 5432 9550

4030

Part Number	Dimension			Rated Current	Operating Voltage	Heater Resistance	Operating Electric Power
	L (mm)	W (mm)	T (mm)				
FC-4030-12A-C1-C	4.0	3.0	0.85	12A	3.00~5.00V	1.00~1.50Ω	6.0~39W
FD-4030-12A-C1-C	4.0	3.0	0.85	12A	3.00~4.50V	0.63~1.35Ω	6.0~39W
FD-4030-12A-C2-C	4.0	3.0	0.85	12A	4.00~9.00V	2.00~2.65Ω	6.0~40W
FD-4030-12A-C3-C	4.0	3.0	0.85	12A	7.40~14.0V	5.00~9.00Ω	6.0~39W
FD-4030-12A-C4-C	4.0	3.0	0.85	12A	10.5~19.6V	9.80~18.0Ω	6.0~39W
FR-4030-12A-C1-C	4.0	3.0	1.05	12A	3.00~4.50V	0.63~1.35Ω	6.0~39W
FR-4030-12A-C2-C	4.0	3.0	1.05	12A	4.00~9.00V	2.00~3.20Ω	6.0~48W
FR-4030-12A-C3-C	4.0	3.0	1.05	12A	7.00~14.0V	5.00~9.00Ω	6.0~39W
FR-4030-12A-C4-C	4.0	3.0	1.05	12A	10.5~19.6V	9.80~18.0Ω	6.0~39W

5432

Part Number	Dimension			Rated Current	Operating Voltage	Heater Resistance	Operating Electric Power
	L (mm)	W (mm)	T (mm)				
FR-5432-5A-C2-B	5.4	3.2	1.35	5A	4.0~9.0V	3.22±0.32Ω	4.5~28.0W
FC-5432-10A-C1-C	5.4	3.2	1.05	10A	4.0~7.0V	1.25~2.65Ω	6.0~39.0W
FC-5432-10A-C2-C	5.4	3.2	1.05	10A	4.0~9.0V	1.7~2.65Ω	6.0~48.0W
FC-5432-10A-C3-C	5.4	3.2	1.05	10A	7.0~14.0V	5.0~8.0Ω	6.0~39.0W
FC-5432-10A-C4-C	5.4	3.2	1.05	10A	10.5~19.5V	9.8~16.5Ω	6.0~39.0W
FC-5432-10A-H2-C	5.4	3.2	1.05	10A	5.0~10.0V	2.5~4.2Ω	6.5~40.0W
FC-5432-12A-C1-C	5.4	3.2	1.05	12A	4.0~7.0V	1.25~2.65Ω	6.0~39.0W
FC-5432-12A-C2-C	5.4	3.2	1.05	12A	4.0~9.0V	1.7~2.65Ω	6.0~48.0W
FC-5432-12A-C3-C	5.4	3.2	1.05	12A	7.0~14.0V	5.0~8.0Ω	6.0~39.0W
FC-5432-12A-C4-C	5.4	3.2	1.05	12A	10.5~19.5V	9.8~16.5Ω	6.0~39.0W
FC-5432-12A-H3-C	5.4	3.2	1.05	12A	8.0~15.0V	7.0~11.0Ω	6.5~40.0W
FC-5432-12A-L1-C	5.4	3.2	1.05	12A	3.0~5.0V	0.63~1.35Ω	6.5~40W
FC-5432-15A-C1-C	5.4	3.2	1.05	15A	4.0~7.0V	1.0~2.5Ω	6.5~35.0W
FC-5432-15A-C3-C	5.4	3.2	1.05	15A	7.0~14.0V	5.0~9.0Ω	6.5~35.0W
FC-5432-15A-C4-C	5.4	3.2	1.05	15A	10.5~19.5V	10.0~18.0Ω	6.5~35.0W

FC-5432-15A-C5-C	5.4	3.2	1.05	15A	14.4~23.5V	15.8~31.8Ω	6.5~35.0W

9550

Part Number	Dimension			Rated Current	Operating Voltage	Heater Resistance	Operating Electric Power
	L (mm)	W (mm)	T (mm)				
FR-9550-30A-C01-B	9.5	5.0	2.0	30A	4.0~6.6V	0.8~1.2Ω	13~53W
FR-9550-30A-C03-B	9.5	5.0	2.0	30A	8.4~13.2V	3.2~5.2Ω	13~53W
FR-9550-30A-C04-B	9.5	5.0	2.0	30A	11.1~18.4V	6.3~9.3Ω	13~53W
FR-9550-30A-C05-B	9.5	5.0	2.0	30A	14.0~23.4V	10.0~15.0Ω	13~53W
FR-9550-30A-C07-B	9.5	5.0	2.0	30A	20.2~31.5V	18.8~31.2Ω	13~53W
FR-9550-30A-C10-B	9.5	5.0	2.0	30A	28.0~46.9V	40.0~60.0Ω	13~53W
FR-9550-30A-C14-B	9.5	5.0	2.0	30A	39.6~62.0V	72.4~120.6Ω	13~53W

CONTACT US

Beside the standard products, we also make customize products according to your different request and specifications. If you have any question or request, please contact us. We will reply to you as soon as possible.

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