2014 PRODUCT CATALOG

www.cyntec.com

Cyntec

MAKING THINGS SMALLER AND BETTER

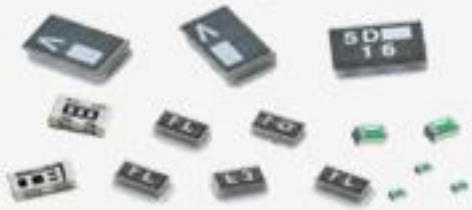
ABOUT CYNTEC

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

PRODUCT LINE

POWER CHOKE



RF COMPONENTS

RESISTORS & RESISTOR NETWORK
CURRENT SENSING RESISTOR

POWER MODULE

PT SENSOR

FUSE-RESISTANCE
PROTECTOR

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 150 million in one month and widely used in computer, smartphone, LED Lighting, and Automotives.

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
PSD	**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:

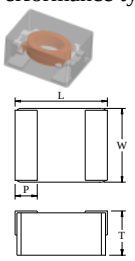
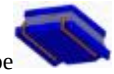
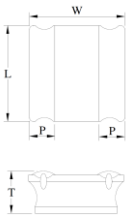
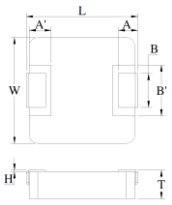
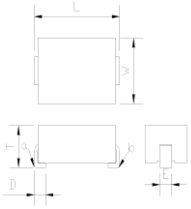
3 Types:

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 △T 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 T 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.

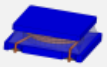
SERIES PRODUCT SPECIFICATION

1210 SERIES 2016 SERIES 2520 SERIES 3*3 SERIES 4*4 SERIES 5*5 SERIES 6*6 SERIES 7*7 SERIES

10*10 SERIES 11*11 SERIES 12*12 SERIES 13*13 SERIES 17*17 SERIES

1210 SERIES

PSB12101T (1.25*1.0*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
PSB12101T-R10MSD	0.10	33	40	2.65	2.38	2.70	2.43
PSB12101T-R22MSD	0.22	51	62	1.50	1.35	2.20	2.00
PSB12101T-R24MSD	0.24	54	65	1.48	1.33	2.15	1.94
PSB12101T-R33MSD	0.33	68	82	1.46	1.32	2.10	1.90
PSB12101T-R47MSD	0.47	82	99	1.45	1.31	1.55	1.40
PSB12101T-R50MSD	0.50	85	102	1.41	1.26	1.48	1.33
PSB12101T-1R0MSD	1.00	168	202	1.00	0.90	1.12	1.01
PSB12101T-1R5MSD	1.50	237	284	0.84	0.75	0.82	0.74
PSB12101T-2R2MSD	2.20	330	396	0.71	0.63	0.67	0.60
PSB12101T-3R3MSD	3.30	558	670	0.55	0.49	0.52	0.47
PSB12101T-4R7MSD	4.70	793	952	0.46	0.41	0.46	0.41
PSB12101T-100MSD	10.0	1,300	1,560	0.36	0.32	0.35	0.32

Back to 1210 SERIES TOP

2016 SERIES

PIFE20161T PIFE20161B PISB20161T PSD20161T PSD20161B PSQ20161T

PIFE20161T (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
PIFE20161T-R47MS	0.47	38	46	2.7	2.43	3.56	3.20
PIFE20161T-1R0MS	1.0	65	75	2.1	1.90	2.80	2.40
PIFE20161T-1R5MS	1.5	114	137	1.8	1.60	2.20	2.00
PIFE20161T-2R2MS	2.2	164	197	1.6	1.40	1.95	1.75

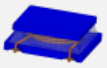
Back to 2016 SERIES TOP

PIFE20161B (2.0*1.6*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
PIFE20161B-R22MS	0.22	13	16	5.2	4.68	5.7	5.1
PIFE20161B-R24MS	0.24	17	21	4.5	4.0	5.3	4.77
PIFE20161B-R33MS	0.33	27	33	3.9	3.5	4.6	4.0
PIFE20161B-R47MS	0.47	30	36	3.5	3.1	3.9	3.5
PIFE20161B-R50MS	0.5	32	39	3.3	3.0	3.7	3.4
PIFE20161B-1R0MS	1.0	60	72	2.4	2.2	2.9	2.61
PIFE20161B-1R5MS	1.5	93	112	1.9	1.7	2.4	2.16
PIFE20161B-2R2MS	2.2	155	186	1.5	1.35	2.1	1.7

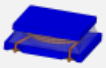
Back to 2016 SERIES TOP

PISB20161T (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
PISB20161T-R24MS	0.24	20	25	4.80	4.32	5.3	4.8
PISB20161T-R33MS	0.33	28	33	4.0	3.6	4.6	4.1
PISB20161T-R47MS	0.47	35	42	3.3	3.0	4.2	3.8
PISB20161T-R68MS	0.68	46	55	3.0	2.7	3.5	3.2
PISB20161T-1R0MS	1.0	60	72	2.65	2.4	2.9	2.5
PISB20161T-1R5MS	1.5	110	132	2.0	1.8	2.3	2.05
PISB20161T-2R2MS	2.2	135	160	1.75	1.6	1.9	1.7

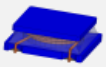
Back to 2016 SERIES TOP

PSD20161T (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
PSD20161T-R24MS	0.24	29	35	4.00	3.60	3.80	3.42
PSD20161T-R33MS	0.33	36	43	3.25	2.93	3.70	3.33
PSD20161T-R47MS	0.47	49	59	2.60	2.34	2.85	2.56
PSD20161T-R50MS	0.50	52	63	2.50	2.25	2.70	2.43
PSD20161T-R68MS	0.68	71	86	2.25	2.03	2.20	1.98
PSD20161T-1R0MS	1.00	96	115	1.60	1.44	1.88	1.69
PSD20161T-1R5MS	1.50	143	172	1.40	1.26	1.63	1.46
PSD20161T-1R8MS	1.80	175	210	1.35	1.21	1.50	1.35
PSD20161T-2R0MS	2.00	193	232	1.32	1.19	1.45	1.31
PSD20161T-2R2MS	2.20	196	236	1.30	1.17	1.40	1.26
PSD20161T-3R3MS	3.30	247	297	1.05	0.94	1.00	0.90
PSD20161T-4R7MS	4.70	331	398	0.90	0.81	0.85	0.76
PSD20161T-6R8MS	6.80	623	748	0.60	0.54	0.80	0.72
PSD20161T-100MS	10.00	1,108	1,330	0.45	0.40	0.62	0.55
PSD20161T-150MS	15.00	1,620	1,944	0.40	0.36	0.50	0.45
PSD20161T-220MS	22.00	2,367	2,840	0.37	0.33	0.43	0.38
PSD20161T-270MS	27.00	2,400	2,880	0.35	0.32	0.35	0.32
PSD20161T-330MS	33.00	2,810	3,372	0.27	0.24	0.30	0.27
PSD20161T-470MS	47.00	2,910	3,492	0.20	0.18	0.20	0.18

Back to 2016 SERIES TOP

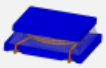
PSD20161B (2.0*1.6*1.2 mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PSD20161B-R33MS	0.33	38	44	2.90	2.61	4.00	3.50
PSD20161B-R47MS	0.47	40	45	2.35	2.11	2.90	2.64
PSD20161B-R50MS	0.50	48	58	2.20	2.07	2.50	2.25
PSD20161B-R68MS	0.69	68	82	2.15	1.94	2.40	2.16
PSD20161B-1R0MS	1.00	76	92	1.70	1.44	1.77	1.59
PSD20161B-1R5MS	1.50	124	149	1.44	1.29	1.75	1.57
PSD20161B-1R8MS	1.80	138	166	1.36	1.22	1.50	1.35

PSD20161B-2R0MS	2.00	140	168	1.35	1.21	1.37	1.23
PSD20161B-2R2MS	2.20	154	185	1.29	1.16	1.26	1.13
PSD20161B-3R3MS	3.30	213	256	1.10	0.99	1.10	0.99
PSD20161B-4R7MS	4.70	280	336	0.96	0.86	0.90	0.81
PSD20161B-6R8MS	6.80	399	479	0.80	0.72	0.73	0.65
PSD20161B-8R2MS	8.20	481	577	0.73	0.65	0.71	0.63
PSD20161B-100MS	10.00	528	634	0.70	0.63	0.63	0.56
PSD20161T-150MS	15.00	1,455	1,746	0.46	0.41	0.54	0.48
PSD20161B-220MS	22.00	1,610	1,932	0.35	0.31	0.42	0.37

Back to 2016 SERIES TOP

PSQ20161T (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
PSQ20161T-R24MS	0.24	24	29	3.75	3.38	3.60	3.24
PSQ20161T-R47MS	0.47	44	53	2.60	2.34	3.00	2.70
PSQ20161T-1R0MS	1.00	86	103	1.75	1.60	1.95	1.80
PSQ20161T-1R0MS	1.50	117	140	1.55	1.40	1.70	1.53
PSQ20161T-2R2MS	2.2	138	150	1.49	1.26	1.20	1.00
PSQ20161T-4R7MS	4.7	361	433	1.00	0.90	0.86	0.77

Back to 2016 SERIES TOP

2520 SERIES

PIFE25201T PIFE25201B PISB25201T PSI25201T PSI25201B PST25201T PST25201B PSE25201B

PIFE25201T (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
PIFE25201T-R22MS	0.22	10	12	5.8	5.22	6.6	6.00
PIFE25201T-R33MS	0.33	21	26	4.4	4.00	5.3	4.77
PIFE25201T-R47MS	0.47	34	41	3.5	3.15	4.5	4.05
PIFE25201T-R50MS	0.5	36	44	3.4	3.06	4.3	3.87
PIFE25201T-1R0MS	1.0	54	65	2.8	2.52	3.55	3.2
PIFE25201T-1R5MS	1.5	80	95	2.2	1.98	3.0	2.7
PIFE25201T-2R2MS	2.2	96	113	1.8	1.62	2.6	2.34

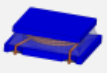
Back to 2520 SERIES TOP

PIFE25201B (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
PIFE25201B-R22MS	0.22	8	10	7.3	6.57	7.0	6.3
PIFE25201B-R33MS	0.33	14	17	5.5	4.95	5.8	5.22
PIFE25201B-R47MS	0.47	23	28	4.5	4.0	5.0	4.5
PIFE25201B-R50MS	0.5	25	30	4.3	3.87	4.8	4.32
PIFE25201B-1R0MS	1.0	45	55	3.1	2.7	3.8	3.3
PIFE25201B-1R5MS	1.5	58	70	2.7	2.43	2.9	2.61
PIFE25201B-2R2MS	2.2	86	105	2.3	2.0	2.5	2.2
PIFE25201B-3R3MS	3.3	120	140	1.75	1.55	2.0	1.8

Back to 2520 SERIES TOP

PISB25201T (2.5*2.0*1.0mm)

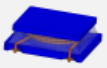


Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PISB25201T-R33MS	0.33	24	29	4.5	4.2	6.4	5.7
PISB25201T-R47MS	0.47	29	35	3.9	3.51	4.7	4.20
PISB25201T-R68MS	0.68	40	48	3.5	3.15	4.15	3.70
PISB25201T-1R0MS	1.0	52	62	3.3	3.00	3.90	3.60
PISB25201T-1R5MS	1.5	84	100	2.2	1.98	2.90	2.65

PISB25201T-2R2MS	2.2	100	120	2.0	1.80	2.50	2.20
PISB25201T-4R7MS	4.7	217	260	1.5	1.35	1.70	1.53

Back to 2520 SERIES TOP

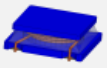
PSI25201T (2.5*2.0*1.0mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PSI25201T-R47MS	0.47	40	48	2.80	2.52	2.80	2.50
PSI25201T-R50MS	0.50	55	66	2.70	2.43	2.70	2.43
PSI25201T-R68MS	0.68	60	72	2.40	2.16	2.60	2.34
PSI25201T-1R0MS	1.00	71	85	2.00	1.80	2.15	1.93
PSI25201T-1R5MS	1.50	107	128	1.80	1.62	1.70	1.50
PSI25201T-2R2MS	2.20	158	190	1.50	1.35	1.50	1.35
PSI25201T-3R3MS	3.30	253	304	1.00	0.90	1.20	1.00
PSI25201T-4R7MS	4.70	367	440	0.90	0.81	1.00	0.90
PSI25201T-6R8MS	6.80	451	541	0.75	0.67	0.82	0.74
PSI25201T-100MS	10.00	712	854	0.60	0.54	0.65	0.59
PSI25201T-220MS	22.0	1,716	2,059	0.45	0.40	0.40	0.36

Back to 2520 SERIES TOP

PSI25201B (2.5*2.0*1.2mm)

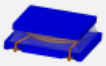


Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PSI25201B-R22MS	0.22	31	38	3.50	3.15	4.50	4.05
PSI25201B-R33MS	0.33	39	47	3.00	2.70	4.20	3.78
PSI25201B-R47MS	0.47	47	56	2.20	1.98	3.70	3.33
PSI25201B-R50MS	0.50	56	67	2.15	1.93	3.50	3.15
PSI25201B-R68MS	0.68	65	78	2.10	1.89	3.40	3.06
PSI25201B-1R0MS	1.00	73	88	1.80	1.62	2.70	2.43
PSI25201B-1R2MS	1.20	93	112	1.60	1.44	2.35	2.11
PSI25201B-1R5MS	1.50	105	126	1.50	1.35	2.20	1.98
PSI25201B-2R2MS	2.20	129	155	1.30	1.17	2.00	1.80
PSI25201B-3R3MS	3.30	227	272	1.00	0.90	1.60	1.44
PSI25201B-4R7MS	4.70	338	406	0.81	0.73	1.30	1.17
PSI25201B-5R6MS	5.60	375	450	0.72	0.65	1.15	1.03

PSI25201B-6R8MS	6.80	510	612	0.66	0.60	1.10	0.99
PSI25201B-8R2MS	8.2	590	708	0.62	0.55	0.95	0.85
PSI25201B-1R0MS	10.00	630	756	0.59	0.53	0.90	0.81
PSI25201B-2R2MS	22.00	2,170	2,604	0.30	0.27	0.50	0.45

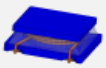
Back to 2520 SERIES TOP

PST25201T (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
PST25201T-R24MS	0.24	30	36	3.00	2.70	4.60	4.14
PST25201T-R33MS	0.33	35	42	2.85	2.56	4.50	4.05
PST25201T-R47MS	0.47	36	44	2.70	2.43	2.90	2.61
PST25201T-R50MS	0.50	37	45	2.67	2.40	2.85	2.57
PST25201T-R68MS	0.68	49	59	2.40	2.16	2.70	2.43
PST25201T-1R0MS	1.00	68	82	1.98	1.78	2.10	1.89
PST25201T-1R5MS	1.50	95	114	1.65	1.49	1.75	1.58
PST25201T-2R2MS	2.20	136	164	1.40	1.26	1.55	1.39
PST25201T-3R3MS	3.30	207	249	1.15	1.04	1.30	1.17
PST25201T-4R7MS	4.70	269	323	1.08	0.97	1.20	1.08
PST25201T-6R8MS	6.80	404	485	0.81	0.73	0.85	0.77
PST25201T-8R2MS	8.20	500	600	0.77	0.69	0.77	0.69
PST25201T-100MS	10.00	508	610	0.72	0.64	0.73	0.65
PST25201T-150MS	15.0	928	1114	0.45	0.40	0.55	0.49
PST25201T-220MS	22.0	1312	1574	0.35	0.31	0.45	0.40

Back to 2520 SERIES TOP

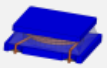
PST25201B (2.5*2.0*1.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PST25201B-R24MS	0.24	20	25	3.90	3.51	5.00	4.50
PST25201B-R47MS	0.47	25	29	3.70	3.33	3.90	3.50
PST25201B-R50MS	0.50	27	32	3.60	3.24	3.80	3.40
PST25201B-R68MS	0.68	31	36	3.30	2.97	2.90	2.60
PST25201B-R82MS	0.82	36	42	2.70	2.43	2.73	2.46
PST25201B-1R0MS	1.00	37	43	2.60	2.34	2.70	2.50

PST25201B-1R5MS	1.50	63	72	2.20	1.98	2.30	2.07
PST25201B-2R2MS	2.20	80	90	1.85	170	2.15	1.95
PST25201B-3R3MS	3.30	140	155	1.45	1.31	1.70	1.60
PST25201B-4R7MS	4.70	190	212	1.20	1.08	1.50	1.40
PST25201B-6R0MS	6.00	260	288	1.10	0.99	1.35	1.25
PST25201B-6R8MS	6.80	325	370	1.00	0.90	1.15	1.04
PST25201B-100MS	10.00	360	410	0.75	0.68	0.85	0.77
PST25201B-150MS	15.00	820	984	0.60	0.54	0.63	0.56
PST25201B-220MS	22.00	910	1,050	0.50	0.45	0.56	0.50

Back to 2520 SERIES TOP

PSE25201B (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
PSE25201B-R24MS	0.24	20	25	3.90	3.51	5.00	4.50
PSE25201B-R47MS	0.47	25	29	3.70	3.33	3.90	3.50
PSE25201B-R50MS	0.5	27	32	3.60	3.24	3.80	3.40
PSE25201B-R68MS	0.68	31	36	3.30	2.97	2.90	2.60
PSE25201B-R82MS	0.82	36	42	2.70	2.43	2.73	2.46
PSE25201B-1R0MS	1.0	37	43	2.60	2.34	2.70	2.45
PSE25201B-1R5MS	1.5	63	72	2.20	1.98	2.30	2.07
PSE25201B-2R2MS	2.2	80	90	1.85	1.75	2.15	1.95
PSE25201B-3R3MS	3.3	140	155	1.45	1.31	1.70	1.60
PSE25201B-4R7MS	4.7	190	212	1.20	1.08	1.50	1.40
PSE25201B-6R0MS	6.0	260	288	1.10	0.99	1.35	1.25
PSE25201B-6R8MS	6.8	325	370	1.00	0.90	1.15	1.04
PSE25201B-100MS	10.0	360	410	0.75	0.68	0.85	0.77
PSE25201B-150MS	15.0	820	984	0.60	0.54	0.63	0.56
PSE25201B-220MS	22.0	910	1,050	0.50	0.45	0.56	0.50

Back to 2520 SERIES TOP

3*3 SERIES

PIFE32251T PIFE32251B PST031T PST031B PIME031B

PIFE32251T (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
PIFE32251T-R33MS	0.33	15	18	5.50	4.95	6.50	5.85
PIFE32251T-R47MS	0.47	27	33	3.90	3.51	4.80	4.32
PIFE32251T-1R0MS	1.0	42	50	3.00	2.7	3.70	3.30
PIFE32251T-1R5MS	1.5	67	81	2.45	2.20	3.25	2.93
PIFE32251T-2R2MS	2.2	103	124	2.00	1.80	2.70	2.43
PIFE32251T-4R7MS	4.7	195	234	1.43	1.30	2.00	1.80

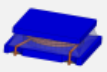
Back to 3*3 SERIES TOP

PIFE32251B (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
PIFE32251B-R33MS	0.33	11	14	6.70	6.03	7.20	6.48
PIFE32251B-R47MS	0.47	25	30	4.50	4.00	5.70	5.10
PIFE32251B-1R0MS	1.0	35	42	3.80	3.40	4.70	4.20
PIFE32251B-1R5MS	1.5	57	68	2.90	2.61	3.70	3.33
PIFE32251B-2R2MS	2.2	76	91	2.40	2.20	3.00	2.70
PIFE32251B-4R7MS	4.7	164	197	1.66	1.50	2.20	2.00

Back to 3*3 SERIES TOP

PST031T (3.0*3.0*1.0mm)

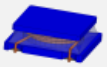


Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PST031T-R47MS	0.47	38	46	3.20	2.88	3.70	3.33
PST031T-1R0MS	1.00	68	82	2.75	2.48	3.00	2.70
PST031T-1R5MS	1.50	65	78	1.90	1.71	1.80	1.62
PST031T-2R2MS	2.20	90	108	1.60	1.44	1.60	1.44
PST031T-3R3MS	3.30	110	132	1.45	1.31	1.25	1.13
PST031T-4R7MS	4.70	167	200	1.20	1.08	1.00	0.90
PST031T-6R8MS	6.80	250	300	0.95	0.86	0.85	0.76

PST031T-8R2MS	8.20	311	373	0.85	0.77	0.80	0.72
PST031T-100MS	10.00	366	439	0.81	0.73	0.75	0.68
PST031T-150MS	15.00	672	807	0.72	0.64	0.58	0.52
PST031T-220MS	22.00	708	850	0.55	0.50	0.45	0.41
PST031T-330MS	33.0	1360	1632	0.50	0.45	0.38	0.34
PST031T-470MS	47.0	2170	2604	0.38	0.34	0.30	0.27

Back to 3*3 SERIES TOP

PST031B (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
PST031B-R47MS	0.47	36	44	3.40	3.06	3.80	3.42
PST031B-1R0MS	1.00	52	63	2.80	2.52	3.40	3.06
PST031B-1R5MS	1.50	60	72	2.50	2.25	3.10	2.60
PST031B-2R2MS	2.20	85	102	2.20	1.98	2.90	2.40
PST031B-3R3MS	3.30	134	161	1.71	1.53	1.92	1.72
PST031B-4R7MS	4.70	184	221	1.43	1.28	1.71	1.53
PST031B-5R6MS	5.60	231	277	1.26	1.14	1.55	1.39
PST031B-6R8MS	6.80	256	307	1.25	1.13	1.49	1.24
PST031B-8R2MS	8.20	337	405	1.05	0.95	1.32	1.20
PST031B-100MS	10.00	397	476	1.00	0.90	1.26	1.05
PST031B-150MS	15.00	572	686	0.80	0.72	1.10	0.83
PST031B-220MS	22.00	854	1,025	0.60	0.54	0.86	0.72
PST031B-330MS	33.00	1587	1904	0.40	0.36	0.48	0.43
PST031B-470MS	47.00	2246	2695	0.36	0.32	0.36	0.32

Back to 3030 SERIES TOP

PIME031B (3.3*3.7*1.2mm)

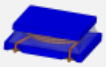
Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIME031B-R47MS	0.47	23.5	28.0	4.50	4.00	7.60	6.00
PIME031B-1R0MS	1.00	46.0	55.0	3.10	2.80	5.40	4.50
PIME031B-2R2MS	2.20	105.5	125.0	2.00	1.80	3.50	2.80

Back to 3030 SERIES TOP

4*4 SERIES

PSI041B PST041H PIMB041B PIMB042T PIMC042T

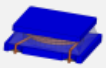
PSI041B (3.8*3.8*1.2mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PSI041B-1R0MS	1.00	50	60	3.10	2.79	2.80	2.52
PSI041B-1R5MS	1.50	60	70	2.80	2.52	2.40	2.16
PSI041B-2R2MS	2.20	70	84	2.60	2.34	1.90	1.71
PSI041B-3R3MS	3.30	85	102	2.30	2.07	1.60	1.44
PSI041B-4R7MS	4.70	110	132	1.80	1.62	1.40	1.26
PSI041B-6R8MS	6.80	130	156	1.70	1.53	1.20	1.08
PSI041B-8R2MS	8.20	165	190	1.40	1.26	1.10	0.99
PSI041B-100MS	10.00	200	240	1.30	1.17	1.00	0.90
PSI041B-150MS	15.00	340	408	1.00	0.90	0.80	0.72
PSI041B-220MS	22.00	410	492	0.95	0.855	0.70	0.63
PSI041B-330MS	33.00	650	780	0.60	0.54	0.53	0.48
PSI041B-470MS	47.00	850	1,020	0.50	0.45	0.46	0.41

Back to 4*4 SERIES TOP

PST041H (3.8*3.8*1.8mm)



Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PST041H-R56MS	0.56	17	22	5.40	4.86	5.50	4.95
PST041H-R80MS	0.80	19	23	4.30	3.87	4.0	3.60
PST041H-1R0MS	1.00	20	25	3.80	3.42	3.80	3.42
PST041H-1R2MS	1.20	25	30	3.60	3.24	3.60	3.24
PST041H-1R5MS	1.50	33	40	3.20	2.88	3.50	3.15
PST041H-1R8MS	1.80	34	41	3.10	2.79	3.10	2.79
PST041H-2R2MS	2.20	35	45	3.00	2.70	3.00	2.70
PST041H-3R3MS	3.30	45	56	2.70	2.43	2.40	2.16
PST041H-4R7MS	4.70	70	90	2.20	1.98	2.00	1.80
PST041H-6R8MS	6.80	90	115	1.90	1.71	1.70	1.53
PST041H-8R2MS	8.20	105	132	1.50	1.35	1.60	1.44
PST041H-100MS	10.00	135	170	1.40	1.26	1.55	1.40

PST041H-150MS	15.00	185	222	1.25	1.12	1.00	0.90
PST041H-220MS	22.00	250	315	1.20	1.08	0.83	0.74
PST041H-330MS	33.00	405	486	0.90	0.81	0.68	0.61
PST041H-470MS	47.00	495	594	0.80	0.72	0.56	0.50
PST041H-680MS	68.00	885	1062	0.58	0.52	0.48	0.43
PST041H-101MS	100.00	1,545	1,854	0.42	0.37	0.45	0.40
PST041H-221MS	220.00	3,150	3,780	0.30	0.27	0.33	0.30
PST041H-331MS	330.00	4,200	5,040	0.27	0.24	0.25	0.22

Back to 4*4 SERIES TOP

PIMB041B (4.45*4.75*1.2mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB041B-R33MS	0.33	17.0	19.0	6.5		8.4	
PIMB041B-R47MS	0.47	19.0	21.0	6.0		6.8	
PIMB041B-R68MS	0.68	32.0	36.0	4.5		6.0	
PIMB041B-1R0MS	1.0	43.0	47.0	4.2		5.2	
PIMB041B-1R5MS	1.5	68.0	75.0	3.3		4.0	
PIMB041B-2R2MS	2.2	79.4	83.5	2.8		3.5	
PIMB041B-R47MS	4.7	175.0	195.0	1.8		2.8	

Back to 4*4 SERIES TOP

PIMB042T (4.3*4.5*2.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB042T-R10MS	0.1	3.5	4.0	12.0		22.0	
PIMB042T-R22MS	0.22	6.0	6.6	9.0		12.5	
PIMB042T-R47MS	0.47	12.5	14.0	7.0		9.5	
PIMB042T-R56MS	0.56	14.0	16.0	6.5		10.0	
PIMB042T-R68MS	0.68	16.0	18.0	6.0		9.0	
PIMB042T-1R0MS	1.0	24.0	27.0	4.5		7.0	
PIMB042T-1R2MS	1.2	24.0	27.0	4.5		7.0	
PIMB042T-1R5MS	1.5	38.0	46.0	4.0		6.0	
PIMB042T-2R2MS	2.2	52.0	58.0	3.0		5.0	
PIMB042T-3R3MS	3.3	74.0	87.0	2.5		4.0	
PIMB042T-4R7MS	4.7	92.0	105.0	2.2		3.0	

Back to 4*4 SERIES TOP

PIMC042T (4.3*4.5*2.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMC042T-R10MN	0.1	4.5	5.0	11.0		30.0	
PIMC042T-R22MN	0.22	7.3	8.0	9.0		17.0	
PIMC042T-R47MN	0.47	14.0	15.5	6.0		11.5	
PIMC042T-1R0MN	1.0	32.0	36.0	3.8		8.5	

Back to 4*4 SERIES TOP

PCDE0404 (4.0*4.0*4.0mm)

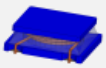
Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDE0404-065EMO	0.065	0.29	20.5	20.5		24.0	
PCDE0404-050CMO	0.050	0.32	19.0	19.0		32.0	
PCDE0404-065CMO	0.065	0.32	19.0	19.0		24.0	
PCDE0404-050HMO	0.050	0.40	19.0	19.0		32.0	
PCDE0404-065HMO	0.065	0.40	19.0	19.0		24.0	

Back to 4*4 SERIES TOP

5*5 SERIES

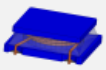
PS053T PSI054T PIMB051B PIME051E PIMB051H PIMB053T

PS053T (4.9*4.9*3.0mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PS053T-1R0MS	1.0	17	21	7.6	6.8	8.45	7.60
PS053T-1R5MS	1.5	21	26	6.2	5.58	6.95	6.20
PS053T-2R2MS	2.2	24	29	6.0	5.40	5.65	5.00
PS053T-3R3MS	3.3	29	35	5.5	4.90	4.90	4.40
PS053T-4R7MS	4.7	42	51	4.8	4.30	3.90	3.50
PS053T-6R8MS	6.8	59	71	3.7	3.30	3.45	3.10
PS053T-8R2MS	8.2	73	88	3.2	2.88	3.00	2.70
PS053T-100MS	10.0	87	105	3.0	2.70	2.65	2.35
PS053T-330MS	33.0	256	308	1.4	1.26	1.55	1.35

Back to 5*5 SERIES TOP

PSI054T (4.9*4.9*4.0mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PSI054T-1R0MS	1.0	8.5	10.6	6.80	6.10	10.5	9.4
PSI054T-1R5MS	1.5	12.0	15.0	5.50	4.90	10.0	9.0
PSI054T-2R2MS	2.2	14.4	18.0	5.00	4.50	7.5	6.7
PSI054T-3R3MS	3.3	20.4	25.5	4.50	4.00	6.3	5.6
PSI054T-4R7MS	4.7	28.0	35.0	3.50	3.20	5.0	4.5
PSI054T-6R8MS	6.8	42.0	52.5	3.10	2.80	4.5	4.1
PSI054T-8R2MS	8.2	53.0	64.0	3.05	2.75	3.7	3.3
PSI054T-100MS	10.0	54.6	68.3	3.00	2.70	3.6	3.2
PSI054T-120MS	12.0	71.0	85.2	2.70	2.43	3.3	3.0
PSI054T-150MS	15.0	79.1	99.0	2.30	2.00	2.7	2.4
PSI054T-220MS	22.0	120.2	150.3	2.00	1.80	2.4	2.1
PSI054T-330MS	33.0	169.2	211.5	1.50	1.30	1.9	1.7
PSI054T-470MS	47.0	235.7	294.6	1.30	1.10	1.6	1.4
PSI054T-101MS	100.0	480.0	600.0	0.90	0.80	1.0	0.9

Back to 5*5 SERIES TOP

PIMB051B (5.4*5.75*1.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIMB051B-2R2MS	2.2	67.0	76.0	3.5		4.0	
PIMB051B-3R3MS	3.3	85.0	98.0	3.0		3.7	
PIMB051B-4R7MS	4.7	145.0	163.0	2.3		3.4	
PIMB051B-6R8MS	6.8	225.0	250.0	2.0		2.3	

Back to 5*5 SERIES TOP

PIME051E (5.4*5.75*1.5mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIME051E-R33MS	0.33	8.0	9.0	10.0		15.0	
PIME051E-1R0MS	1.0	20.0	23.0	6.5		9.0	
PIME051E-1R2MS	1.2	29.3	33.7	5.3		8.0	
PIME051E-2R2MS	2.2	58.0	64.0	3.3		6.0	
PIME051E-3R3MS	3.3	65.0	72.0	3.2		5.0	
PIME051E-4R7MS	4.7	95.0	106.0	3.0		4.0	
PIME051E-6R8MS	6.8	120.0	130.0	2.5		3.2	
PIME051E-100MS	10.0	153.0	170.0	2.0		3.0	
PIME051E-150MS	15.0	310.0	350.0	1.3		2.3	

Back to 5*5 SERIES TOP

PIMB051H (5.4*5.75*1.8mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIMB051H-R47MS	0.47	7.7	9.0	10.5		15.5	
PIMB051H-R56MS	0.56	8.0	10.0	9.5		15.0	
PIMB051H-R68MS	0.68	12.0	18.0	8.9		11.2	
PIMB051H-1R0MS	1.00	15.0	17.0	8.0		9.0	
PIMB051H-1R2MS	1.20	17.0	20.0	7.5		8.0	
PIMB051H-2R2MS	2.20	30.0	35.0	5.0		6.5	
PIMB051H-3R3MS	3.30	52.0	58.0	4.5		5.0	
PIMB051H-4R7MS	4.70	80.0	85.0	3.5		4.0	
PIMB051H-6R8MS	6.80	107.0	120.0	2.8		3.4	

PIMB051H-8R2MS	8.20	131.0	145.0	2.6		3.1	
PIMB051H-100MS	10.00	140.0	155.0	2.5		3.0	

Back to 5*5 SERIES TOP

PIMB053T (4.9*5.2*3.0mm)

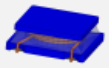
Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB053T-R10MS	0.10	2.0	2.5	32.0		34.0	
PIMB053T-R12MS	0.12	2.2	2.6	30.0		32.0	
PIMB053T-R20MS	0.20	3.5	3.9	21.0		14.5	
PIMB053T-R35MS	0.35	4.5	5.0	16.5		9.0	
PIMB053T-R47MS	0.47	7.4	8.5	13.0		12.0	
PIMB053T-R68MS	0.68	11.0	12.0	8.5		14.0	
PIMB053T-1R0MS	1.00	13.0	14.0	7.0		11.0	
PIMB053T-1R2MS	1.20	15.0	16.0	6.5		11.0	
PIMB053T-1R5MS	1.50	20.0	25.0	6.0		10.0	
PIMB053T-2R2MS	2.20	29.0	35.0	5.5		9.0	
PIMB053T-3R3MS	3.30	32.0	38.0	5.0		7.0	
PIMB053T-4R7MS	4.70	50.0	60.0	4.0		5.0	
PIMB053T-6R8MS	6.8	96.0	110.0	3.0		3.5	

Back to 5*5 SERIES TOP

6*6 SERIES

PS064T PIME061B PIME061E PIME063T PIMB061H PIMB062D PIMB063T PIMC063T PIMB065T PIMC065T

PS064T (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
PS064T-1R5MS	1.5	11	14	6.50	5.80	7.80	7.00
PS064T-1R8MS	1.8	13	16	6.30	5.70	7.40	6.70
PS064T-2R2MS	2.2	14	17	6.20	5.60	7.00	6.30
PS064T-3R3MS	3.3	20	25	5.00	4.50	5.50	5.00
PS064T-3R6MS	3.6	21	26	4.90	4.40	5.10	4.60
PS064T-4R7MS	4.7	23	27	4.70	4.00	5.00	4.50
PS064T-6R8MS	6.8	32	40	4.20	3.60	4.00	3.60
PS064T-8R2MS	8.2	39	47	3.40	3.10	3.50	3.15
PS064T-100MS	10.0	40	50	3.30	3.00	3.40	3.10
PS064T-120MS	12.0	55	69	3.00	2.70	2.80	2.50
PS064T-150MS	15.0	70	88	2.50	2.30	2.50	2.20
PS064T-220MS	22.0	98	122	2.20	1.90	2.20	2.00
PS064T-330MS	33.0	137	172	1.90	1.70	1.70	1.50
PS064T-470MS	47.0	200	250	1.50	1.40	1.40	1.20
PS064T-560MS	56.0	245	306	1.40	1.20	1.30	1.15
PS064T-680MS	68.0	289	362	1.20	1.10	1.20	1.10
PS064T-101MS	100.0	425	532	1.00	0.90	1.00	0.90
PS064T-121MS	120.0	484	605	0.90	0.81	0.92	0.82
PS064T-151MS	150.0	580	725	0.80	0.72	0.84	0.75
PS064T-221MS	220.0	834	1043	0.64	0.58	0.71	0.64
PS064T-331MS	330.0	1270	1580	0.58	0.52	0.58	0.52

Back to 6*6 SERIES TOP

PIME061B (6.8*7.3*1.2mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIME061B-R56MS	0.56	13.5	15.5	7.0		11.0	
PIME061B-R68MS	0.68	15.0	17.5	6.7		9.0	

PIME061B-R82MS	0.82	21.5	24.5	6.3	8.0
PIME061B-1R0MS	1.0	25.0	29.0	6.0	7.5
PIME061B-2R2MS	2.2	51.5	59.0	4.0	5.0
PIME061B-3R3MS	3.3	80.0	92.0	3.0	4.0
PIME061B-4R7MS	4.7	106.0	122.0	2.7	3.5
PIME061B-6R8MS	6.8	185.0	210.0	2.2	2.8
PIME061B-100MS	10.0	250.0	290.0	2.0	2.2

Back to 6*6 SERIES TOP

PIME061E (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
PIME061E-R33MS	0.33	6.8	7.8	10.0		19.5	
PIME061E-R47MS	0.47	7.3	8.5	9.8		16.0	
PIME061E-R56MS	0.56	9.5	11.0	9.0		14.0	
PIME061E-R68MS	0.68	10.5	12.0	8.5		12.0	
PIME061E-R82MS	0.82	15.0	17.0	7.0		10.0	
PIME061E-1R0MS	1.0	18.5	21.0	5.5		9.0	
PIME061E-1R2MS	1.2	25.0	30.0	5.4		8.5	
PIME061E-2R2MS	2.2	46.0	54.0	3.5		6.0	
PIME061E-3R3MS	3.3	54.0	63.0	3.3		5.5	
PIME061E-4R7MS	4.7	76.0	85.0	3.2		5.0	
PIME061E-6R8MS	6.8	125.0	135.0	2.5		4.0	
PIME061E-100MS	10.0	165.0	175.0	2.0		3.0	

Back to 6*6 SERIES TOP

PIME063T (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
PIME063T-R33MS	0.33	2.15	2.48	26.3	24.0	29.0	26.0
PIME063T-R36MS	0.36	2.3	2.55	25.0	23.0	28.0	25.0
PIME063T-R39MS	0.39	2.5	2.9	22.0	20.0	26.0	22.0
PIME063T-R47MS	0.47	2.9	3.3	22.0	20.0	21.0	19.0
PIME063T-R68MS	0.68	4.6	5.2	16.0	14.5	16.5	15.0
PIME063T-R82MS	0.82	5.1	5.6	15.5	14.0	16.0	15.5
PIME063T-1R0MS	1.0	5.5	6.6	15.0	13.5	15.0	13.5

PIME063T-1R5MS	1.5	8.2	9.5	11.5	10.0	14.0	12.0
PIME063T-2R2MS	2.2	12.0	13.8	10.0	9.00	13.0	11.5
PIME063T-3R3MS	3.4	18.9	21.0	7.0	6.50	11.0	9.50
PIME063T-6R8MS	6.8	41.0	48.0	5.5	5.00	6.5	6.10
PIME063T-100MS	10.0	60.0	66.0	4.0	3.80	5.9	5.50

Back to 6*6 SERIES TOP

PIMB061H (6.8*7.4*1.8mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIMB061H-R10MS	0.10	2.0	2.5	18.0		45.0	
PIMB061H-R22MS	0.22	4.5	5.2	14.0		29.0	
PIMB061H-R33MS	0.33	5.2	6.8	12.0		22.0	
PIMB061H-R47MS	0.47	7.3	8.4	11.0		18.0	
PIMB061H-R68MS	0.68	10.8	12.7	9.0		17.0	
PIMB061H-1R0MS	1.0	14.5	17.0	7.0		14.0	
PIMB061H-1R5MS	1.5	20.0	26.0	6.5		12.0	
PIMB061H-2R0MS	2.0	28.0	32.0	6.0		13.0	
PIMB061H-2R2MS	2.2	31.0	35.0	6.0		13.0	
PIMB061H-3R3MS	3.3	56.0	60.0	3.5		10.0	
PIMB061H-4R7MS	4.7	68.0	70.0	3.5		5.0	
PIMB061H-6R8MS	6.8	101.0	110.0	2.8		3.5	
PIMB061H-100MS	10.0	140.0	155.0	2.3		2.5	
PIMB061H-150MS	15.0	215.0	250.0	1.8		2.2	

Back to 6*6 SERIES TOP

PIMB062D (6.8*7.3*2.4mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIMB062D-R10MS	0.1	1.5	1.7	30.0		70.0	
PIMB062D-R20MS	0.2	2.2	2.8	25.0		50.0	
PIMB062D-R22MS	0.22	2.6	3.2	21.0		34.0	
PIMB062D-R33MS	0.33	3.5	4.1	18.0		24.5	
PIMB062D-R47MS	0.47	4.9	5.5	15.0		22.0	
PIMB062D-R56MS	0.56	5.9	6.5	13.0		17.0	

PIMB062D-R68MS	0.68	6.2	7.2	12.0	16.0
PIMB062D-1R0MS	1.0	11.2	13.5	9.0	16.0
PIMB062D-1R5MS	1.5	17.0	20.0	9.0	15.0
PIMB062D-2R2MS	2.2	23.0	28.0	7.0	14.0
PIMB062D-3R3MS	3.3	31.0	39.0	5.5	13.0
PIMB062D-4R7MS	4.7	41.0	50.0	5.0	10.0
PIMB062D-5R6MS	5.6	51.0	60.0	5.0	6.5
PIMB062D-6R8MS	6.8	57.0	70.0	4.0	6.0
PIMB062D-100MS	10.0	92.0	101.0	3.1	4.0
PIMB062D-150MS	15.0	145.0	160.0	2.5	3.3

Back to 6*6 SERIES TOP

PIMB063T (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
PIMB063T-R10MS	0.10	1.5	1.7	32.5		60.0	
PIMB063T-R15MS	0.15	1.9	2.5	30.0		40.0	
PIMB063T-R20MS	0.20	2.4	3.0	24.0		34.0	
PIMB063T-R22MS	0.22	2.5	3.0	23.0		34.0	
PIMB063T-R33MS	0.33	3.0	3.5	21.0		25.0	
PIMB063T-R36MS	0.36	3.3	3.9	20.0		24.0	
PIMB063T-R47MS	0.47	3.5	4.1	18.0		20.0	
PIMB063T-R56MS	0.56	3.9	4.5	16.5		18.0	
PIMB063T-R68MS	0.68	4.8	5.3	16.0		17.0	
PIMB063T-R82MS	0.82	5.4	6.0	14.0		16.0	
PIMB063T-1R0MS	1.0	6.7	7.4	12.0		15.0	
PIMB063T-1R2MS	1.20	7.8	10.0	10.0		14.0	
PIMB063T-1R5MS	1.50	10.6	12.1	10.0		14.0	
PIMB063T-2R2MS	2.20	13.5	15.0	8.0		10.0	
PIMB063T-3R3MS	3.30	18.0	22.0	6.5		9.5	
PIMB063T-4R7MS	4.70	28.0	33.0	5.5		6.5	
PIMB063T-5R6MS	5.60	39.0	42.0	5.5		6.0	
PIMB063T-6R8MS	6.80	43.9	50.0	4.5		6.0	
PIMB063T-8R2MS	8.20	54.0	60.0	4.5		6.0	
PIMB063T-100MS	10.0	62.0	68.0	4.0		5.5	

PIMB063T-220MS	22.0	180.0	200.0	2.3		3.0

Back to 6*6 SERIES TOP

PIMC063T (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
PIMC063T-R10MN	0.10	1.5	1.7	32.5		60.0	
PIMC063T-R20MN	0.20	2.4	3.0	24.0		41.0	
PIMC063T-R22MN	0.22	2.5	2.8	23.0		40.0	
PIMC063T-R33MN	0.33	3.5	3.9	20.0		30.0	
PIMC063T-R47MN	0.47	4.0	4.2	17.5		26.0	
PIMC063T-R56MN	0.56	4.7	5.0	16.5		25.5	
PIMC063T-R68MN	0.68	5.0	5.5	15.5		25.0	
PIMC063T-R75MN	0.75	5.4	6.2	14.0		24.5	
PIMC063T-R82MN	0.82	6.7	8.0	13.0		24.0	
PIMC063T-1R0MN	1.00	9.0	10.0	11.0		22.0	
PIMC063T-1R2MN	1.20	10.0	12.0	10.0		20.0	
PIMC063T-1R5MN	1.50	14.0	15.0	9.0		18.0	
PIMC063T-2R0MN	2.00	16.0	18.0	8.2		14.0	
PIMC063T-2R2MN	2.20	18.0	20.0	8.0		14.0	
PIMC063T-2R5MN	2.50	20.0	22.0	7.0		14.0	
PIMC063T-3R3MN	3.30	28.0	30.0	6.0		13.5	
PIMC063T-4R7MN	4.70	37.0	40.0	5.5		10.0	
PIMC063T-6R8MN	6.80	54.0	60.0	4.5		8.0	

Back to 6*6 SERIES TOP

PIMB065T (6.8*7.4*5.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB065T-R13MS	0.13	1.0	1.2	42.0		48.0	
PIMB065T-R22MS	0.22	1.1	1.3	30.0		35.0	
PIMB065T-R36MS	0.36	2.7	3.1	21.0		25.0	
PIMB065T-R40MS	0.40	3.2	3.5	20.0		23.0	
PIMB065T-R47MS	0.47	3.3	3.8	20.0		21.0	

PIMB065T-R56MS	0.56	3.4	3.6	20.0	18.0
PIMB065T-R68MS	0.68	3.9	4.2	18.0	16.0
PIMB065T-R82MS	0.82	4.6	4.9	16.5	17.0
PIMB065T-1R0MS	1.00	5.6	6.5	13.0	15.0
PIMB065T-1R2MS	1.20	6.0	7.5	12.0	13.0
PIMB065T-1R5MS	1.50	6.0	7.5	11.0	12.0
PIMB065T-2R2MS	2.20	11.2	12.5	10.5	12.0
PIMB065T-3R3MS	3.30	19.9	20.9	8.5	9.0
PIMB065T-4R7MS	4.70	23.0	25.0	6.5	7.0
PIMB065T-5R6MS	5.60	31.5	34.4	6.0	7.0
PIMB065T-6R8MS	6.80	36.5	41.0	5.5	6.0
PIMB065T-8R2MS	8.20	40.0	43.0	5.5	5.5
PIMB065T-100MS	10.00	48.0	55.0	4.5	5.3
PIMB065T-150MS	15.0	110.0	127.0	3.1	3.4
PIMB065T-220MS	22.0	165.0	190.0	2.6	2.8

Back to 6*6 SERIES TOP

PIMC065T (6.8*7.4*5.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMC065T-R22MN	0.22	1.2	1.4	30.0		50.0	
PIMC065T-R47MN	0.47	3.5	3.9	20.0		30.0	
PIMC065T-1R0MN	1.00	5.6	6.5	15.0		20.0	
PIMC065T-1R2MN	1.20	6.7	7.5	12.0		13.0	
PIMC065T-2R2MN	2.20	11.0	13.6	11.0		15.0	

Back to 6*6 SERIES TOP

7*7 SERIES

PCDA0707 PCDA0907 PCDE0707 PCDE0807 PCDI0707 PCDK0707 PCDN0707 PCDQ0707

PCDA0707 (7.2*7.0*5.2mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDA0707-070CMO	0.07	0.32	37	65		24.0	
PCDA0707-R10CMO	0.10	0.32	37	48		32.0	
PCDA0707-R12CMO	0.12	0.32	37	38		24.0	
PCDA0707-R15CMO	0.15	0.32	37	32		32.0	
PCDA0707-070DMO	0.07	0.46	31	65		24.0	
PCDA0707-R10DMO	0.10	0.46	31	48			
PCDA0707-R12DMO	0.12	0.46	31	38			
PCDA0707-R15DMO	0.15	0.46	31	32			
PCDA0707-070BTMO	0.07	0.20	54	65			
PCDA0707-R10BTMO	0.10	0.20	54	48			
PCDA0707-R12BTMO	0.12	0.20	54	38			
PCDA0707- R15BTMO	0.15	0.20	54	32			

Back to 7*7 SERIES TOP

PCDA0907 (9.0*7.0*5.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDA0907-R10CGMO	0.10	0.37	37	60		24.0	
PCDA0907-R15CGMO	0.15	0.37	37	42		32.0	
PCDA0907-R18CGMO	0.18	0.37	37	33		24.0	
PCDA0907-R23CGMO	0.23	0.37	37	24		32.0	
PCDA0907-R30CGMO	0.30	0.37	37	21		24.0	
PCDA0907-R35CGMO	0.35	0.37	37	16			

Back to 7*7 SERIES TOP

PCDE0707 (7.0*7.0*4.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDE0707-085WMO	0.085	0.28	36	47		24.0	
PCDE0707-R10WMO	0.10	0.28	36	39		32.0	

PCDE0707-R15WMO	0.15	0.28	36	26	24.0
PCDE0707-R20WMO	0.20	0.28	36	18	32.0
PCDE0707-085KMO	0.085	0.24	39	47	24.0
PCDE0707-R10KMO	0.10	0.24	39	39	
PCDE0707-R15KMO	0.15	0.24	39	26	
PCDE0707-R20KMO	0.20	0.24	39	18	

Back to 7*7 SERIES TOP

PCDE0807 (8.0*7.0*4.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDE0807-R15QMO	0.15	0.50		28		34	

Back to 7*7 SERIES TOP

PCDI0707 (7.5*7.0*7.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDI0707-R10GAMO	0.10	0.71		33		60	
PCDI0707-R15GAMO	0.15	0.71		33		44	
PCDI0707-R22GAMO	0.22	0.71		33		30	
PCDI0707-R10CEMO	0.10	0.35		48		60	
PCDI0707-R15CEMO	0.15	0.35		48		44	
PCDI0707-R22CEMO	0.22	0.35		48		30	

Back to 7*7 SERIES TOP

PCDK0707 (7.2*6.7*3.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDK0707-R10KMO	0.10	0.24		39		18	
PCDK0707-R12KMO	0.12	0.24		39		15	

Back to 7*7 SERIES TOP

PCDN0707 (7.0*7.0*3.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDN0707-R15KMO	0.15	0.24		39		18	

PCDN0707-R17KMO	0.17	0.24		39		16

Back to 7*7 SERIES TOP

PCDQ0707 (7.4*7.0*4.7mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDQ0707-R10AFMO	0.10	0.16		56		38	
PCDQ0707-R15AFMO	0.15	0.16		56		22	
PCDQ0707-R10AGMO	0.10	0.17		55		40	
PCDQ0707-R12AGMO	0.12	0.17		55		35	
PCDQ0707-R15AGMO	0.15	0.17		55		25	
PCDQ0707-R18AGMO	0.18	0.17		55		20	
PCDQ0707-R22AGMO	0.22	0.17		55		15	
PCDQ0707-R10BFMO	0.10	0.26		38		40	
PCDQ0707-R12BFMO	0.12	0.26		38		35	
PCDQ0707-R15BFMO	0.15	0.26		38		25	
PCDQ0707-R18BFMO	0.18	0.26		38		20	
PCDQ0707-R22BFMO	0.22	0.26		38		15	

Back to 7*7 SERIES TOP

10*10 SERIES

PIMB101E PIMB103F PIMB103T PIMB104E PIMB104T PIMC104T PIME104T PCDA1007 PCDB1008
PCDC1008 PCDF1006N PCDG1008 PCDI1010 PCDQ1007 PCDR1175 PCDS1008

PIMB101E (10.3*11.2*1.5)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB101E-R68MS	0.68	15.0	16.0	7.5		16.0	
PIMB101E-R82MS	0.8	16.0	18.0	6.0		14.0	
PIMB101E-1R0MS	1.0	18.0	21.0	5.5		12.0	
PIMB101E-3R3MS	3.3	62.0	70.0	4.0		6.5	
PIMB101E-4R7MS	4.7	83	95	3.0		6.0	

Back to 10*10 SERIES TOP

PIMB103T (10.3*11.5*3.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB103T-R24MS	0.24	1.1	1.27	30.0		50.0	
PIMB103T-R33MS	0.33	1.3	1.6	23.0		32.0	
PIMB103T-R36MS	0.36	1.3	1.6	23.0		28.0	
PIMB103T-R47MS	0.47	2.1	2.5	23.0		26.0	
PIMB103T-R56MS	0.56	2.4	3.0	22.0		24.0	
PIMB103T-R68MS	0.68	2.9	3.4	21.0		23.0	
PIMB103T-R82MS	0.82	4.0	4.6	18.0		22.5	
PIMB103T-1R0MS	1.00	5.3	6.0	15.0		21.0	
PIMB103T-1R5MS	1.50	6.5	7.5	13.5		20.0	
PIMB103T-2R2MS	2.20	8.0	9.0	13.0		16.0	
PIMB103T-3R3MS	3.30	14.5	16.0	9.0		14.0	
PIMB103T-4R7MS	4.70	20.5	22.5	7.0		13.0	
PIMB103T-8R2MS	8.20	35.0	45.0	5.0		8.5	
PIMB103T-100MS	10.00	50.0	55.0	5.0		7.5	
PIMB103T-150MS	15.00	59.0	65.0	4.0		6.0	
PIMB103T-220MS	22.00	90.0	99.0	3.0		5.0	

Back to 10*10 SERIES TOP

PIMB104E (10.3*11.5*4.5mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB104E-1R0MS	1.0	2.7	3.2	22.0		34.0	
PIMB104E-2R2MS	2.2	5.8	7.0	14.0		16.0	
PIMB104E-3R3MS	3.3	11.0	13.2	11.0		14.5	
PIMB104E-4R7MS	4.7	13.2	15.0	10.0		13.0	
PIMB104E-5R6MS	5.6	16.0	18.5	8.5		10.5	
PIMB104E-6R8MS	6.8	21.5	24.0	7.5		9.5	

Back to 10*10 SERIES TOP

PIMB104T (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
PIMB104T-R15MS	0.15	0.5	0.7	40.0		75.0	
PIMB104T-R22MS	0.22	0.9	1.0	35.0		60.0	
PIMB104T-R36MT	0.36	1.1	1.2	30.0		50.0	
PIMB104T-R39MS	0.39	1.1	1.2	31.0		45.0	
PIMB104T-R45MS	0.45	1.1	1.3	25.0		27.0	
PIMB104T-R47MS	0.47	1.5	1.7	30.0		40.0	
PIMB104T-R56MT	0.56	1.6	1.8	25.0		33.0	
PIMB104T-R68MS	0.68	2.1	2.4	23.0		30.0	
PIMB104T-R88MS	0.88	2.7	3.0	20.0		29.0	
PIMB104T-1R0MT	1.00	3.0	3.3	18.0		28.0	
PIMB104T-1R5MS	1.50	3.8	4.2	16.0		32.0	
PIMB104T-1R8MS	1.80	4.5	5.0	15.0		15.0	
PIMB104T-2R0MS	2.00	5.2	5.8	14.0		14.0	
PIMB104T-2R2MS	2.20	6.0	7.0	12.0		18.0	
PIMB104T-3R3MS	3.30	10.8	11.8	10.0		16.0	
PIMB104T-4R7MS	4.70	17.0	20.0	8.5		15.0	
PIMB104T-5R6MS	5.60	20.0	23.0	8.0		14.0	
PIMB104T-6R8MS	6.80	22.5	25.0	7.0		12.0	
PIMB104T-8R2MS	8.20	25.0	27.0	6.0		9.0	
PIMB104T-100MS	10.00	27.0	30.0	7.5		8.5	

PIMB104T-150MS	15.00	40.0	45.0	6.3	7.0
PIMB104T-220MS	22.00	60.0	66.0	5.0	5.5
PIMB104T-330MS	33.00	85.0	92.0	4.4	5.0
PIMB104T-470MS	47.00	130.0	145.0	3.3	3.5
PIMB104T-680MS	68.00	178.0	195.0	2.3	3.0

Back to 10*10 SERIES TOP

PIMC104T (10.3*11.5*4.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIMC104T-R15MN	0.15	0.5	0.65	40.0		75.0	
PIMC104T-R22MN	0.22	0.9	1.0	35.0		60.0	
PIMC104T-R39MN	0.39	1.1	1.3	30.0		60.0	
PIMC104T-R41MN	0.41	1.1	1.3	30.0		60.0	
PIMC104T-R45MN	0.45	1.1	1.3	29.0		45.0	
PIMC104T-R68MN	0.68	2.4	2.7	22.0		39.0	
PIMC104T-R88MN	0.88	2.7	3.0	20.0		38.0	
PIMC104T-1R5MN	1.50	3.8	4.2	16.0		33.0	
PIMC104T-2R2MN	2.20	6.7	7.0	12.0		27.0	
PIMC104T-4R7MN	4.70	15.0	16.5	9.5		17.0	

Back to 10*10 SERIES TOP

PIME104T (10.3*11.5*4.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIME104T-R36MS0R765	0.36	0.76 ± 5%		40.0		40.0	
PIME104T-R36MS0R825	0.36	0.82 ± 5%		37.0		40.0	
PIME104T-R45MS1R007	0.45	1.0 ± 7%		35.0		38.0	
PIME104T-R56MS1R407	0.56	1.4 ± 7%		30.0		35.0	
PIME104TR68MS1R607	0.68	1.6 ± 7%		28.0		33.0	
PIME104T-R88MS2R307	0.88	2.3 ± 7%		27.0		32.0	
PIME104T1R0MS2R307	1.00	2.3 ± 7%		25.0		30.0	

Back to 10*10 SERIES TOP

PCDA1007 (10.4*7.0*5.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDA1007-085AMO	0.085	0.33		31		70+	
PCDA1007-R12AMO	0.12	0.33		31		52	
PCDA1007-R15AMO	0.15	0.33		31		40	
PCDA1007-R22AMO	0.22	0.33		31		33	
PCDA1007-085BMO	0.085	0.55		24		70+	
PCDA1007-R12BMO	0.12	0.55		24		52	
PCDA1007-R15BMO	0.15	0.55		24		40	
PCDA1007-R22BMO	0.22	0.55		24		33	
PCDA1007-085PMO	0.085	0.39		31		70+	
PCDA1007-R12PMO	0.12	0.39		31		52	
PCDA1007-R15PMO	0.15	0.39		31		40	
PCDA1007-R22PMO	0.22	0.39		31		33	
PCDA1007-R12KMO	0.12	0.24		37		52	
PCDA1007-R15KMO	0.15	0.24		37		40	
PCDA1007-R22KMO	0.22	0.24		37		33	

Back to 10*10 SERIES TOP

PCDB1008 (10.4*8.0*7.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDB1008-R12EMO	0.12	0.29		60		87	
PCDB1008-R15EMO	0.15	0.29		60		70	
PCDB1008-R18EMO	0.18	0.29		60		57	
PCDB1008-R215EMO	0.215	0.29		60		44	
PCDB1008-R31EMO	0.31	0.29		60		30	
PCDB1008-R12DAMO	0.12	0.41		54		92	
PCDB1008-R15DAMO	0.15	0.41		54		74	
PCDB1008-R18DAMO	0.18	0.41		54		60	
PCDB1008-R215DAMO	0.215	0.41		54		47	
PCDB1008-R31DAMO	0.31	0.41		54		32	
PCDB1008-R12NMO	0.12	0.48		51		92	

PCDB1008-R15NMO	0.15	0.48	51	74
PCDB1008-R18NMO	0.18	0.48	51	60
PCDB1008-R215NMO	0.215	0.48	51	47
PCDB1008-R31NMO	0.31	0.48	51	32

Back to 10*10 SERIES TOP

PCDC1008 (10.4*8.0*7.5mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDC1008-R12ELO	0.115	0.29		41		94	
PCDC1008-R15ELO	0.15	0.29		41		72	
PCDC1008-R18ELO	0.175	0.29		41		62	
PCDC1008-R215ELO	0.215	0.29		41		48	
PCDC1008-R23ELO	0.23	0.29		41		43	
PCDC1008-R27ELO	0.27	0.29		41		37	
PCDC1008-R31ELO	0.31	0.29		41		32	
PCDC1008-R12EL5	0.115	0.29		41		94	
PCDC1008-R15EL5	0.15	0.29		41		72	
PCDC1008-R18EL5	0.175	0.29		41		62	
PCDC1008-R215EL5	0.215	0.29		41		48	
PCDC1008-R23EL5	0.23	0.29		41		43	
PCDC1008-R27EL5	0.27	0.29		41		37	
PCDC1008-R31EL5	0.31	0.29		41		32	

Back to 10*10 SERIES TOP

PCDF1006N (9.6*6.4*8.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDF1006N-R10EKO	0.10	0.29		51		95	
PCDF1006N-R12EKO	0.12	0.29		51		81	
PCDF1006N-R15EKO	0.15	0.29		51		66	
PCDF1006N-R18EKO	0.18	0.29		51		54	
PCDF1006N-R22EKO	0.22	0.29		51		45	
PCDF1006N-R28EKO	0.28	0.29		51		35	
PCDF1006N-R30EKO	0.30	0.29		51		33	

PCDF1006N-R33EKO	0.33	0.29		51		29

Back to 10*10 SERIES TOP

PCDG1008 (10.0*8.2*6.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDG1008-R16DEMO	0.16	0.45		40		60	
PCDG1008-R18DEMO	0.18	0.45		40		52	
PCDG1008-R21DEMO	0.21	0.45		40		45	

Back to 10*10 SERIES TOP

PCDI1010 (10.0*10.0*7.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDI1010-R15FTMO	0.15	0.60		30		70	
PCDI1010-R22FTMO	0.22	0.60		30		46	

Back to 10*10 SERIES TOP

PCDQ1007 (10.4*7.0*4.7mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDQ1007-R10IMO	0.10	0.235		47		60	
PCDQ1007-R15IMO	0.15	0.235		47		40	
PCDQ1007-R22IMO	0.22	0.235		47		25	
PCDQ1007-R10CHMO	0.10	0.38		37		60	
PCDQ1007-R15CHMO	0.15	0.38		37		40	
PCDQ1007-R22CHMO	0.22	0.38		37		25	

Back to 10*10 SERIES TOP

PCDR1175 (10.9*7.5*5.5mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDR1175-R10BELO	0.10	0.25		54		88	
PCDR1175-R12BELO	0.12	0.25		54		75	
PCDR1175-R15BELO	0.15	0.25		54		57	
PCDR1175-R18BELO	0.18	0.25		54		48	

PCDR1175-R22BELO	0.22	0.25	54	38
PCDR1175-R27BELO	0.27	0.25	54	30
PCDR1175-R32BELO	0.32	0.25	54	24
PCDR1175-R10BTLO	0.10	0.20	60	88
PCDR1175-R12BTLO	0.12	0.20	60	75
PCDR1175-R15BTLO	0.15	0.20	60	57
PCDR1175-R18BTLO	0.18	0.20	60	48
PCDR1175-R22BTLO	0.22	0.20	60	38
PCDR1175-R27BTLO	0.27	0.20	60	30
PCDR1175-R32BTLO	0.32	0.20	60	24

Back to 10*10 SERIES TOP

PCDS1008 (10.4*8.5*6.8mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDS1008-R15BBMO	0.15	0.22		57		60	
PCDS1008-R215BBMO	0.215	0.22		57		41	

Back to 10*10 SERIES TOP

11*11 SERIES

PCDA1108 PCDC1107 PCDF1111 PCDH1111 PCDP1107

PCDA1108 (11.0*8.0*5.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDA1108-R22CEMO	0.22	0. 35		4057		5260	

Back to 11*11 SERIES TOP

PCDC1107 (11.0*7.2*7.5mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDC1107-R12EMO	0.12	0.29		48		76	
PCDC1107-R15EMO	0.15	0.29		48		70	
PCDC1107-R18EMO	0.18	0.29		48		56	
PCDC1107-R20EMO	0.20	0.29		48		52	
PCDC1107-R23EMO	0.23	0.29		48		44	
PCDC1107-R28EMO	0.28	0.29		48		36	
PCDC1107-R30EMO	0.30	0.29		48		34	
PCDC1107-R36EMO	0.36	0.29		48		25	
PCDC1107-R40EMO	0.40	0.29		48		23	
PCDC1107-R50EMO	0.50	0.29		48		17	
PCDC1107-R12YMO	0.12	0.245		52		76	
PCDC1107-R15YMO	0.15	0.245		52		70	
PCDC1107-R18YMO	0.18	0.245		52		56	
PCDC1107-R20YMO	0.20	0.245		52		52	
PCDC1107-R23YMO	0.23	0.245		52		44	
PCDC1107-R28YMO	0.28	0.245		52		36	
PCDC1107-R30YMO	0.30	0.245		52		34	
PCDC1107-R36YMO	0.36	0.245		52		25	
PCDC1107-R40YMO	0.40	0.245		52		23	
PCDC1107-R50YMO	0.50	0.245		52		17	
PCDC1107-R12ZMO	0.12	0.47		37		76	
PCDC1107-R15ZMO	0.15	0.47		37		70	
PCDC1107-R18ZMO	0.18	0.47		37		56	
PCDC1107-R20ZMO	0.20	0.47		37		52	

PCDC1107-R23ZMO	0.23	0.47	37	44
PCDC1107-R28ZMO	0.28	0.47	37	36
PCDC1107-R30ZMO	0.30	0.47	37	34
PCDC1107-R36ZMO	0.36	0.47	37	25
PCDC1107-R40ZMO	0.40	0.47	37	23
PCDC1107-R50ZMO	0.50	0.47	45	17

Back to 11*11 SERIES TOP

PCDF1111 (11.2*11.2*8.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDF1111-R22CEMO	0.22	0.35		45		66	
PCDF1111-R26CEMO	0.26	0.35		45		57	
PCDF1111-R30CEMO	0.30	0.35		45		50	
PCDF1111-R32CEMO	0.32	0.35		45		47	
PCDF1111-R39CEMO	0.39	0.35		45		35	
PCDF1111-R47CEMO	0.47	0.35		45		27	

Back to 11*11 SERIES TOP

PCDH1111 (11.2*11.2*9.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDH1111-R22MMO	0.22	0.31		50		79	
PCDH1111-R25MMO	0.25	0.31		50		63	
PCDH1111-R27MMO	0.27	0.31		50		58	
PCDH1111-R32MMO	0.32	0.31		50		53	
PCDH1111-R36MMO	0.36	0.31		50		48	
PCDH1111-E38MMO	0.38	0.31		50		45	
PCDH1111-R47MMO	0.47	0.31		50		36	
PCDH1111-R55MMO	0.55	0.31		50		28	
PCDH1111-R22GMO	0.22	0.42		42		79	
PCDH1111-R25GMO	0.25	0.42		42		63	
PCDH1111-R27GMO	0.27	0.42		42		58	
PCDH1111-R32GMO	0.32	0.42		42		53	
PCDH1111-R36GMO	0.36	0.42		42		48	

PCDH1111-R38GMO	0.38	0.42	42	45
PCDH1111-R47GMO	0.47	0.42	42	36
PCDH1111-R55GMO	0.55	0.42	42	28
PCDH1111-R22UMO	0.22	0.63	35	79
PCDH1111-R25UMO	0.25	0.63	35	63
PCDH1111-R27UMO	0.27	0.63	35	58
PCDH1111-R32UMO	0.32	0.63	35	53
PCDH1111-R36UMO	0.36	0.63	35	48
PCDH1111-R38UMO	0.38	0.63	35	45
PCDH1111-R47UMO	0.47	0.63	35	36
PCDH1111-R55UMO	0.55	0.63	35	28

Back to 11*11 SERIES TOP

PCDP1107 (11.5*7.0*4.5mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDP1107-R36EFMO	0.36	0.56		3145		20	

Back to 11*11 SERIES TOP

12*12 SERIES

PCDC1208 PCDF1211 PCDG1208 PCDG1210 PCDH1211 PCDK1206 PCDN1206 PCDO1206 PCDP1207

PCDC1208 (12.0*7.5*7.5mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDC1208-R23ELO	0.23	0.29		44		51	

Back to 12*12 SERIES TOP

PCDF1211 (12.5*11.0*8.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDF1211-R32BEMO	0.32	0.25		52		52	

Back to 12*12 SERIES TOP

PCDG1208 (12.0*8.0*6.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDG1208-R15GMO	0.15	0.42		38		70	
PCDG1208-R21GMO	0.21	0.42		38		53	

Back to 12*12 SERIES TOP

PCDG1210 (12.1*10.0*6.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDG1210-R12NMO	0.12	0.48		36		84	
PCDG1210-R18NMO	0.18	0.48		36		64	
PCDG1210-R21NMO	0.215	0.48		36		53	
PCDG1210-R23NMO	0.23	0.48		36		47	
PCDG1210-R32NMO	0.32	0.48		36		34	
PCDG1210-R36NMO	0.36	0.48		36		30	
PCDG1210-R42NMO	0.42	0.48		36		25	
PCDG1210-R12EMO	0.12	0.29		45		84	
PCDG1210-R18EMO	0.18	0.29		45		64	

PCDG1210-R21EMO	0.215	0.29	45	53
PCDG1210-R23EMO	0.23	0.29	45	47
PCDG1210-R32EMO	0.32	0.29	45	34
PCDG1210-R36EMO	0.36	0.29	45	30
PCDG1210-R42EMO	0.42	0.29	45	25

Back to 12*12 SERIES TOP

PCDH1211 (12.5*11.0*9.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDH1211-R22ALO	0.22	0.33		42		85	
PCDH1211-R30ALO	0.30	0.33		42		62	
PCDH1211-R68ALO	0.68	0.33		42		22	

Back to 12*12 SERIES TOP

PCDK1206 (12.1*6.0*3.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDK1206-R14BEMO	0.14	0.25		35		25	
PCDK1206-R17BEMO	0.17	0.25		35		25	

Back to 12*12 SERIES TOP

PCDN1206 (12.0*6.0*3.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDN1206-R20CTMO	0.20	0.30		33		24	

Back to 12*12 SERIES TOP

PCDO1206 (12.0*6.0*3.4mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDO1206-R20CTMO	0.20	0.30		33		26	

Back to 12*12 SERIES TOP

PCDP1207 (12.5*7.0*4.5mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDP1207-R36EHMO	0.36	0.58		30		21	

Back to 12*12 SERIES TOP

13*13 SERIES

PIMB135T PIMB133E PIMC133E PIMC135T PIMB136T PCDE1307 PCDE1308 PCDE1408 PCDF1313 PCDH1375 PCDH1413 PCDI1313

PIMB135T (12.8*13.8*5.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIMB135T-R36MS	0.36	0.74	0.85	42.0		50.0	
PIMB135T-R50MS	0.50	1.0	1.15	38.0		48.0	
PIMB135T-R68MS	0.68	1.35	1.55	33.0		46.0	
PIMB135T-R82MS	0.82	1.45	1.67	30.0		39.0	
PIMB135T-1R0MS	1.0	1.9	2.2	26.0		35.0	
PIMB135T-1R5MS	1.5	2.8	3.2	23.0		33.0	
PIMB135T-1R8MS	1.8	2.8	3.2	23.0		27.0	
PIMB135T-2R2MS	2.2	4.0	5.0	15.0		24.0	
PIMB135T-3R3MS	3.3	5.9	7.0	14.0		22.0	
PIMB135T-100MS	10.0	19.0	22.0	9.0		12.0	
PIMB135T-220MS	22.0	51.0	58.0	4.5		6.5	
PIMB135T-270MS	27.0	58.0	66.0	4.0		6.3	
PIMB135T-330MS	33.0	75.0	84.0	3.5		6.0	
PIMB135T-470MS	47.0	116.0	130.0	3.0		5.0	

Back to 13*13 SERIES TOP

PIMB133E (12.8*13.8*3.5mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PIMB133E-R22MS	0.22	1.0	1.2	38		55	
PIMB133E-R56MS	0.56	1.7	2.0	29		44	
PIMB133E-R68MS	0.68	2.1	2.4	28		42	
PIMB133E-R82MS	0.82	2.5	2.9	25		37	
PIMB133E-1R0MS	1.0	3.0	3.4	24		34	
PIMB133E-1R2MS	1.2	3.3	3.8	20		27	
PIMB133E-1R5MS	1.5	4.1	4.7	18		26	
PIMB133E-2R2MS	2.2	6.0	6.9	14		20	
PIMB133E-3R3MS	3.3	8.3	9.5	13		16	

Back to 13*13 SERIES TOP

PIMC133E (12.8*13.8*3.5mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMC133E-R22MF	0.22	1.1	1.3	38.0		65.0	
PIMC133E-R33MF	0.33	1.3	1.5	36.5		62.0	
PIMC133E-R47MF	0.47	1.7	2.0	32.0		55.0	
PIMC133E-R56MF	0.56	1.8	2.2	29.0		51.0	
PIMC133E-R60MF	0.60	1.8	2.2	29.0		51.0	
PIMC133E-R68MF	0.68	2.3	2.5	28.0		49.0	
PIMC133E-R82MF	0.82	2.6	3	25.0		44.0	
PIMC133E-1R0MF	1.00	3.3	3.5	24.0		40.0	
PIMC133E-2R2MF	2.20	7.2	8.0	16.0		29.0	
PIMC133E-3R3MF	3.30	10.0	12.0	12.0		27.0	
PIMC133E-4R7MF	4.70	16.0	18.0	9.0		22.0	

Back to 13*13 SERIES TOP

PIMC135T (12.8*5.0*13.8mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMC135T-R36MF	0.36	0.77	1.1	41.0		75.0	
PIMC135T-R47MF	0.47	1.10	1.3	38.0		65.0	
PIMC135T-R50MF	0.50	1.20	1.5	36.0		55.0	
PIMC135T-R56MF	0.56	1.20	1.5	36.0		55.0	
PIMC135T-R62MF	0.62	1.50	1.7	34.0		54.0	
PIMC135T-R68MF	0.68	1.50	1.7	34.0		54.0	
PIMC135T-R82MF	0.82	1.80	2.1	31.0		53.0	
PIMC135T-1R0MF	1.00	2.10	2.5	29.0		50.0	
PIMC135T-1R5MF	1.50	3.40	4.1	23.0		48.0	
PIMC135T-2R2MF	2.20	4.60	5.5	20.0		32.0	
PIMC135T-3R3MF	3.30	7.70	9.2	15.0		32.0	
PIMC135T-4R7MF	4.70	12.80	15.0	12.0		27.0	
PIMC135T-6R8MF	6.80	15.40	18.5	11.0		21.0	

Back to 13*13 SERIES TOP

PIMB136T (12.8*13.8*6.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB136T-8R2MS	8.2	13.6	16.0	11.0		13.5	
PIMB136T-100MS	10.0	18.0	20.7	10.0		12.5	
PIMB136T-120MS	12.0	20.0	23.0	7.0		10.0	
PIMB136T-150MS	15.0	25.0	29.0	6.0		9.0	
PIMB136T-180MS	18.0	30.0	35.0	5.0		8.0	
PIMB136T-220MS	22.0	34.0	39.5	5.0		7.5	
PIMB136T-270MS	27.0	49.0	56.0	4.0		6.5	
PIMB136T-330MS	33.0	65.0	75.0	4.0		6.0	
PIMB136T-470MS	47.0	80.0	90.0	3.5		5.5	
PIMB136T-680MS	68.0	120.0	140.0	3.0		4.5	
PIMB136T-101MS	100.0	180.0	200.0	2.5		3.5	
PIMB136T-121MS	120.0	210.0	235.0	2.3		3.2	
PIMB136T-151MS	150.0	300.0	350.0	2.0		2.7	

Back to 13*13 SERIES TOP

PCDE1307 (13.0*7.0*4.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDE1307-R15BEMO	0.15	0.25		45		46	
PCDE1307-R20BEMO	0.20	0.25		45		35	

Back to 13*13 SERIES TOP

PCDE1308 (13.0*8.0*4.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PCDE1308-R20VMO	0.20	0.27		45		40	

Back to 13*13 SERIES TOP

PCDE1408 (13.8*8.0*4.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDE1408-R12SMO	0.12	0.225		48		53	
PCDE1408-R15SMO	0.15	0.225		48		45	
PCDE1408-R16SMO	0.16	0.225		48		44	
PCDE1408-R24SMO	0.24	0.225		48		31	

Back to 13*13 SERIES TOP

PCDF1313 (13.3*13.0*8.2mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDF1313-R21ECMO	0.21	0.53		35		71	
PCDF1313-R26ECMO	0.26	0.53		35		60	
PCDF1313-R32ECMO	0.32	0.53		35		50	
PCDF1313-R36ECMO	0.36	0.53		35		40	
PCDF1313-R44ECMO	0.44	0.53		35		32	
PCDF1313-R21CMO	0.21	0.32		45		71	
PCDF1313-R26CMO	0.26	0.32		45		60	
PCDF1313-R32CMO	0.32	0.32		45		50	
PCDF1313-R36CMO	0.36	0.32		45		40	
PCDF1313-R44CMO	0.44	0.32		45		32	
PCDF1313-R21BFMO	0.21	0.26		50		71	
PCDF1313-R26BFMO	0.26	0.26		50		60	
PCDF1313-R32BFMO	0.32	0.26		50		50	
PCDF1313-R36BFMO	0.36	0.26		50		40	
PCDF1313-R44BFMO	0.44	0.26		50		32	
PCDF1313-R21JMO	0.21	0.165		68		71	
PCDF1313-R26JMO	0.26	0.165		68		60	
PCDF1313-R32JMO	0.32	0.165		68		50	
PCDF1313-R36JMO	0.36	0.165		68		40	
PCDF1313-R44JMO	0.44	0.165		68		32	

Back to 13*13 SERIES TOP

PCDH1375 (13.0*7.5*9.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDH1375-R23WLO	0.23	0.28		44		60	
PCDH1375-R27WLO	0.27	0.28		44		53	

Back to 13*13 SERIES TOP

PCDH1413 (14.5*13.0*9.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDH1413-R45KMO	0.45	0.24		43		45	

Back to 13*13 SERIES TOP

PCDI1313 (13.0*13.0*7.0mm)

	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
Part Number		Typical	Max	Typical	Max	Typical	Max
PCDI1313-R32BEMO	0.32	0.25		52		35	

Back to 13*13 SERIES TOP

17*17 SERIES

PIMB177T (17.15*17.5*7.0mm)

Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
PIMB177T-1R5MS	1.5	1.85	2.15	40.0		40.0	
PIMB177T-2R2MS	2.2	2.15	2.5	37.0		34.0	
PIMB177T-4R7MS	4.7	4.12	4.72	27.0		24.0	
PIMB177T-6R8MS	6.8	6.55	7.55	20.0		22.0	
PIMB177T-8R2MS	8.2	8.1	8.7	16.0		20.0	
PIMB177T-100MS	10.0	9.3	10.0	14.0		18.0	
PIMB177T-150MS	15.0	14.5	15.5	12.0		13.0	
PIMB177T-200MS	20.0	19.5	21.9	9.7		12.0	
PIMB177T-220MS	22.0	20.5	23.0	9.5		11.0	
PIMB177T-330MS	33.0	35.1	37.0	9.0		10.0	
PIMB177T-470MS	47.0	41.0	47.0	6.8		7.5	
PIMB177T-680MS	68.0	74.0	85.0	5.2		6.5	

Back to 17*17 SERIES TOP

RF COMPONENTS

Chip Inductor

Chip inductors are the basic components for modern RF systems, which are widely used in various wireless communication systems such as WPAN, WLAN, and WMAN devices. Cyntec's developed thin film chip inductors are miniaturized down to 01005size, and featured low inductance, high precision, high Q, and low loss.

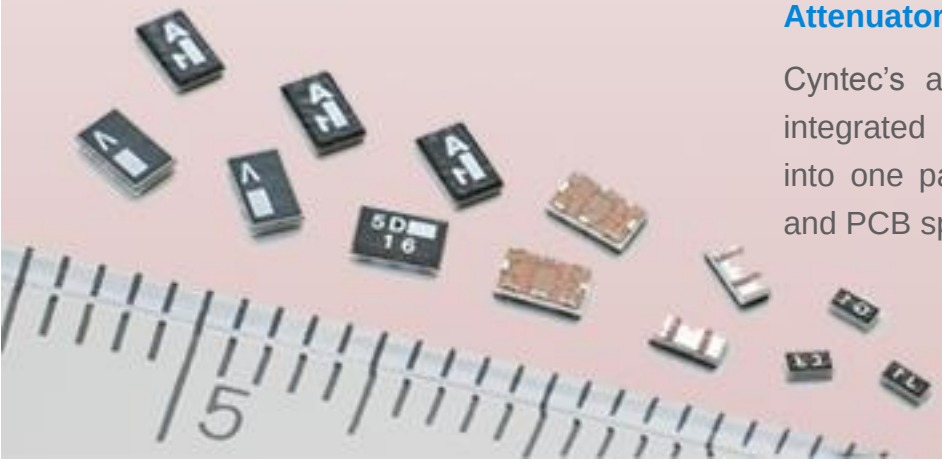
Band Pass Filter / Diplexer

Band Pass Filters (BPF) are key components in modern communication systems which are widely used in mobile devices (GSM, W-CDMA, WiMAX) and wireless communication devices (WLAN, Bluetooth). The Cyntec's thin film band pass filters is characterized with miniaturization, low profile, and low weight that are categorized into low loss and high rejection categories which conform to 3G related wireless applications of most IC by major manufacturers.

Diplexers are important frequency dividing device for multi-mode communication systems. It featured low profile, and support WiFi and mobile phone applications. Both of band pass filters and diplexer are passed Lead Free and RoHS certificate.

Balun / Balance Filter

A balanced filter is the combination of a balun and a filter which provide balanced to unbalanced signal transformation and frequency discrimination. Balanced circuits (differential circuit) are widely used in RFCMOS IC designs, balanced to unbalanced transformers (Baluns) are required for transforming differential signal pairs into single ended signal circuits. Cyntec provide customers with balanced filters specific impedances for Bluetooth chip applications by major manufacturers. Cyntec also provides excellent baluns with various impedance transformation choices including 50 Ohm to standard impedances and to non-standard complex impedance transformations.



Attenuator

Cyntec's attenuator, 0404 package size, integrated three or four discrete resistors into one package for SMT cost reduction and PCB space reduction.

PRODUCT SPECIFICATION

CHIP INDUCTOR BAND PASS / LOW PASS FILTER DIPLEXER BALUN / BALANCE FILTER ATTEUNATOR

CHIP INDUCTOR

Part Number	Dimension		Frequency Range (MHz)	Inductance Range (nH)	Resistance Tolerance
	Metric (mm)	Inch (mil)			
CAL0204	0402	01005	DC~6000	O.2~18	±0.1nH ±0.2nH ±0.3nH ±3.0% ±5.0%
CML0306	0603	0201	100~3000	0.6~22	±0.1nH ±0.2nH ±0.3nH ±3.0% ±5.0%
CTL0510	1005	0402	100~3000	0.5~39	±0.1nH ±0.2nH ±0.3nH ±2.0% ±3.0% ±5.0% ±10.0%
CML0510	1005	0402	100~3000	1~39	±0.1nH ±0.2nH ±2.0% ±3.0%
DML0510HS	1005	0402	100~3000	1.0~120	±0.1nH ±0.2nH ±0.5nH ±2.0% ±5.0% ±10.0%

BAND PASS FILTER

Part Number	Dimension		Frequency Range (MHz)	Insertion Loss (dB) Max.	Attenuation (min.dB)
	Metric (mm)	Inch (mil)			
TBF-1005-245-F1	1005	0402	2400-2500	3	20.0dB @ 824 ~ 960MHz 15.0dB @ 1700~1900MHz 12.0dB @ 2170MHz 15.0dB @ 4800~5000MHz 15.0dB @ 7200~7500MHz
TBF-1608-537-T2	1608	0603	4900-5850	1.7	42.5dB @ 824~960MHz 19.5dB @ 1570~1580MHz 43.5dB @ 1710~1910MHz 30.5dB @ 1920~1990MHz 21.5dB @ 2110~2170MHz 25dB @ 9800~11700MHz 10dB @ 14700~17500MHz
TBF-1608-537-T2A	1608	0603	4900-5850	1.8	35dB @ 824~960MHz 35dB @ 1570~1580MHz 35dB @ 1710~1910MHz 30dB @ 1920~1990MHz 30dB @ 2110~2170MHz 20dB @ 3900MHz 20dB @ 7200MHz 25dB @ 9800~11700MHz 15dB @ 14700~17500MHz
TBF-1608-245-V1A	1608	0603	2400-2500	2.2	40.0dB @ 824 ~ 960MHz 30.0dB @ 1710~1910MHz 28.0dB @ 1910~1990MHz 20.0dB @ 2110~2170MHz 30.0dB @ 4800~5000MHz 30.0dB @ 7200~7500MHz
TBF-1608-245-V2	1608	0603	2400-2500	3.0	40.0dB @ 824 ~ 960MHz 40.0dB @ 1710~1910MHz 40.0dB @ 1910~1990MHz 35.0dB @ 2110~2170MHz 35.0dB @ 4800~5000MHz 30.0dB @ 7200~7500MHz

TBF-1608-245-V3	1608	0603	2400-2500	1.25	22.0dB @ 500 ~ 960MHz 25.0dB @ 3200MHz 35.0dB @ 4800~5000MHz 35.0dB @ 7200~7500MHz
TBF-1608-245-R1N	1608	0603	2400-2500	1.7	20.0dB @ 1710 ~1910MHz 30.0dB @ 4800 ~ 5000MHz 30.0dB @ 7200 ~ 7500MHz
TBF-1608-245-RE	1608	0603	2400-2500	2.5	40.0dB @ 880 ~ 960MHz 30.0dB @ 1710~1910MHz 30.0dB @ 1910~1990MHz 25.0dB @ 2110~2170MHz 30.0dB @ 4800~5000MHz 20.0dB @ 7200~7500MHz
TBF-1608-245-R7	1608	0603	2400-2500	1.8	35.0dB @ 880 ~ 960MHz 25.0dB @ 1710~1910MHz 30.0dB @ 4800~5000MHz 25.0dB @ 7200~7500MHz
TBF-2012-245-V1	2012	0805	2400-2500	1.5	40.0dB @ 824 ~ 960MHz 30.0dB @ 1540~1605MHz 30.0dB @ 1710~1990MHz 20.0dB @ 2170MHz 6.0dB @ 3200MHz 30.0dB @ 4800~5000MHz 25.0dB @ 5150~6000MHz 18.0dB @ 7200~7500MHz
TBF-2012-245-V2	2012	0805	2400-2500	1.8	40.0dB @ 824 ~ 960MHz 40.0dB @ 1540~1605MHz 30.0dB @ 1710~1990MHz 30.0dB @ 2170MHz 35.0dB @ 4800~5000MHz 25.0dB @ 7200~7500MHz
TBF-2012-245-V2A	2012	0805	2400-2500	2.0	38.0dB @ 880 ~ 960MHz 35.0dB @ 1540~1605MHz 35.0dB @ 1710~1990MHz 35.0dB @ 2170MHz 35.0dB @ 4800~5000MHz 25.0dB @ 7200~7500MHz

TBF-2012-245-R1	2012	0805	2400-2500	1.8	30.0dB @ 880 ~ 960MHz 25.0dB @ 1710~1910MHz 30.0dB @ 4800~5000MHz
TBF-2012-245-RL	2012	0805	2400-2500	2.0	30.0dB @ 880 ~ 960MHz 30.0dB @ 1570~1580MHz 30.0dB @ 1710~1990MHz 20.0dB @ 2110~2170MHz 25.0dB @ 4800~5000MHz 20.0dB @ 7200~7500MHz
TBF-2012-537-T1	2012	0805	4900-5850	2.2	40dB @ 340~1195MHz 21dB @ 2140~3580MHz 25dB @ 6855~7150MHz 20dB @ 8570~8930MHz
TBF-2520-245-B2	2520	1008	2400-2500	1.3	35dB @ 880~915MHz 35dB @ 1710~1785MHz 25dB @ 1850~1910MHz 40dB @ 4800~5000MHz

LOW PASS FILTER

Part Number	Dimension		Frequency Range (MHz)	Insertion Loss (dB) Max.	Attenuation (min.dB)
	Metric (mm)	Inch (mil)			
TLF-1005-245-D1	1005	0402	2400-2500	0.75	33.0 dB @ 4800 ~ 5000MHz 37.0 dB @ 7200 ~ 7500MHz
TLF-1005-245-D2	1005	0402	2400-2500	0.45	31.0 dB @ 4800 ~ 5000MHz 27.0 dB @ 7200 ~ 7500MHz
TLF-1005-270-D2	1005	0402	2400-2700	0.55	30.0 dB @ 4800 ~ 5000MHz 15.0 dB @ 7200 ~ 8100MHz
TLF-1608-746-D1	1608	0603	728 ~ 746	0.33	45.0 dB @ 2110~2155MHz
TLF-1608-756-D2	1608	0603	746 ~ 756	0.33	45.0 dB @ 1574MHz

DIPLEXER

Part Number	Dimension		Frequency Range (MHz)	Insertion Loss (dB) Max.	Attenuation (min.dB)
	Metric (mm)	Inch (mil)			
TDP-1005-205-W3	1005	0402	Low:2400-2500	Low:0.5	Low:30.0dB @ 4800~5000MHz
					Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:1.2	High:25.0dB @ 30~2700MHz
					High:13.0dB @ 9800~11900MHz
					High:10.0dB @ 14700~17850MHz
TDP-1608-125-GB	1608	0603	Low:1572-1578	Low:0.6	Low:13.0dB @ 2400~2500MHz
			High:2400-2500	High:0.7	High:22.0dB @ 1572~1578MHz
			High:4925-5975	High:0.6	
TDP-1608-205-W2	1608	0603	Low:2400-2500	Low:0.7	Low:20.0dB @ 4800~5000MHz
					Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:0.9	High:25.0dB @ 1800~2500MHz
					High:20.0dB @ 9800~11900MHz
					High:10.0dB @ 14700~17850MHz
TDP-1608-205-W2A	1608	0603	Low:2400-2500	Low:0.6	Low:20.0dB @ 4800~5000MHz
					Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:1.0	High:32.0dB @ 30~2700MHz
					High:20.0dB @ 9800~11900MHz
					High:14.0dB @ 14700~17850MHz
TDP-1608-205-W2S	1608	0603	Low:2400-2500	Low:0.7	Low:20.0dB @ 4800~5000MHz
					Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:0.9	High:20.0dB @ 1800~2500MHz
					High:20.0dB @ 9800~11900MHz
					High:10.0dB @ 14700~17850MHz
TDP-1608-205-W3	1608	0603	Low:2400-2500	Low:0.7	Low:20.0dB @ 4800~5000MHz
					Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:0.9	High:25.0dB @ 1800~2500MHz
					High:20.0dB @ 9800~11900MHz
					High:10.0dB @ 14700~17850MHz
TDP-1608-205-W3A	1608	0603	Low:2400-2500	Low:0.6	Low:20.0dB @ 4800~5000MHz
					Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:1.0	High:32.0dB @ 30~2700MHz
					High:20.0dB @ 9800~11900MHz
					High:14.0dB @ 14700~17850MHz

TDP-1608-205-W3S	1608	0603	Low:2400-2500	Low:0.7	Low:20.0dB @ 4800~5000MHz
					Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:0.9	High:20.0dB @ 1800~2500MHz
					High:20.0dB @ 9800~11900MHz
					High:15.0dB @ 14700~17850MHz
TDP-2012-205-VA	2012	0805	Low:2400~2500	Low:2.0	Low:30dB Min@824~915 MHz
					Low:30dB Min@1545~1605 MHz
					Low:30dB Min@1710~1990 MHz
					Low:25dB Min@2170 MHz
					Low:32dB Min@4800~5000 MHz
					Low:28dB Min@7200~7500 MHz
			High:5150~5850	High:1.0	High:25dB Min@1545~1610 MHz
					High:30dB Min@2400~2500 MHz
					High:20dB Min@10300~11700 MHz
TDP-2012-205-VB	2012	0805	Low:2400~2500	Low:2.0	Low:30dB Min@824~915 MHz
					Low:30dB Min@1545~1605 MHz
					Low:30dB Min@1710~1990 MHz
					Low:25dB Min@2170 MHz
					Low:32dB Min@4800~5000 MHz
					Low:28dB Min@7200~7500 MHz
			High:5150~5850	High:1.0	High:25dB Min@1545~1610 MHz
					High:30dB Min@2400~2500 MHz
					High:20dB Min@10300~11700 MHz
TDP-2012-205-WA	2012	0805	Low:2400~2500	Low:2.4	Low :25dB Min @824~915 MHz
					Low :25dB Min @1545~1605 MHz
					Low :23dB Min @1710~1990 MHz
					Low :20dB Min @2170 MHz
					Low :30dB Min @4800~5000 MHz
					Low :30dB Min @7200~7500 MHz
			High:5150~5850	High:1.0	High : 23dB Min @2400~2500 MHz
					High : 20dB Min @10300~11700 MHz
TDP-2012-205-WB	2012	0805	Low:2400~2500	Low:2.4	Low :25dB Min @824~915 MHz
					Low :25dB Min @1545~1605 MHz
					Low :23dB Min @1710~1990 MHz
					Low :20dB Min @2170 MHz
					Low :30dB Min @4800~5000 MHz
					Low :30dB Min @7200~7500 MHz

			High:5150~5850	High:1.0	High : 23dB Min @2400~2500 MHz High : 20dB Min @10300~11700 MHz
TDP-2012-205-W2	2012	0805	Low:2400-2500	Low:0.5	Low:20.0dB @ 4800~6000MHz Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:0.8	High:25.0dB @ 1800~2500MHz
TDP-2012-205-W3	2012	0805	Low:2400-2500	Low:0.5	Low:20.0dB @ 4800~6000MHz Low:20.0dB @ 7200~7500MHz
			High:4900-5950	High:0.8	High:25.0dB @ 1800~2500MHz

BALUN

Part Number	Dimension		Frequency Range (MHz)	Insertion Loss (dB) Max.	Impedance (Ω)
	Metric (mm)	Inch (mil)			
TBL-1005-245-MV	1005	0402	2400-2500	1.5	50 - 50
TBL-1005-245-M2	1005	0402	2400-2500	1.2	50 - 100
TBL-1005-537-M3	1005	0402	4900-5850	0.7	50 -150
TBL-1005-245-MA1	1005	0402	2400-2500	1.4	50 - 50
TBL-1608-245-MA1	1608	0603	2400-2500	1.7	50 -- 10
TBL-1608-245-MA2	1608	0603	2400-2500	1.7	50 -- 10
TBL-1608-245-MA3	1608	0603	2400-2500	1.7	50 -- 10
TBL-1608-245-LM1	1608	0603	2400-2500	0.8	50 - 50
TBL-1608-245-L2	1608	0603	2400-2500	1.2	50 - 100
TBL-1608-245-M2	1608	0603	2400-2500	1	50 - 100

BALANCE FILTER

Part Number	Dimension		Frequency Range (MHz)	Insertion Loss (dB) Max.	Attenuation (min.dB)	Impedance (Ω)
	Metric (mm)	Inch (mil)				
TBB-2012-245-C1E	2012	0805	2400-2500	2.5	35dB @880~960 MHz 15dB @1710~1880 MHz 15dB @1880~1910 MHz 25dB @4800~5000 MHz	50(Unbalance)
TBB-2012-245-C1V	2012	0805	2400-2500	2.2	35dB @880~960 MHz 35dB @1545~1910 MHz 20dB @2110~2170 MHz 35dB @4800~5000 MHz 20dB @7200~7500 MHz	50-Conjugated match to MTK Series
TBB-2012-245-C1G	2012	0805	2400-2500	3.2	40dB @880~960 MHz 40dB @1710~1880 MHz 35dB @1880~1910 MHz 30dB @4800~5000 MHz	50-Conjugated match to CSR Series
TBB-2012-245-C1M	2012	0805	2400-2500	2.2	35dB @880~960 MHz 35dB @1710~1880 MHz 25dB @1880~1910 MHz 30dB @4800~5000 MHz 20.0dB @ 7200~7500MHz	50-Conjugated match to MTK Series
TBB-1608-245-AA	1608	0603	2400-2500	2	35dB @4800~5000 MHz 25dB @7200~7500 MHz	50-Conjugated match to chipset

ATTENUATOR

Part Number	Dimension		Frequency Range (MHz)	Insertion Loss Attenuation (min.dB)	Impedance (Ω)
	Metric (mm)	Inch (mil)			
PAT1010-X-01dB-C-CN	1010	0404	DC≤f≤2.5GHz	1±0.30dB@DC≦f≦2.5GHz	50
PAT1010-X-02dB-C-CN	1010	0404	DC≤f≤2.5GHz	2±0.30dB@DC≦f≦2.5GHz	50
PAT1010-X-03dB-C-CN	1010	0404	DC≤f≤2.5GHz	3±0.30dB@DC≦f≦2.5GHz	50
PAT1010-X-04dB-C-CN	1010	0404	DC≤f≤2.5GHz	4±0.30dB@DC≦f≦2.5GHz	50
PAT1010-X-05dB-C-CN	1010	0404	DC≤f≤2.5GHz	5±0.30dB@DC≦f≦2.5GHz	50
PAT1010-X-06dB-C-CN	1010	0404	DC≤f≤2.5GHz	6±0.50dB@DC≦f≦2.5GHz	50
PAT1010-X-07dB-C-CN	1010	0404	DC≤f≤2.5GHz	7±0.50dB@DC≦f≦2.5GHz	50
PAT1010-X-08dB-C-CN	1010	0404	DC≤f≤2.5GHz	8±0.50dB@DC≦f≦2.5GHz	50
PAT1010-X-09dB-C-CN	1010	0404	DC≤f≤2.5GHz	9±0.50dB@DC≦f≦2.5GHz	50
PAT1010-X-10dB-C-CN	1010	0404	1.5G<f≤3GHz	10±0.75dB@1.5G<f≤3GHz	50
PAT1010-X-11dB-C-CN	1010	0404	1.5G<f≤3GHz	11±0.8dB@1.5G<f≤3GHz	50
PAT1010-X-12dB-C-CN	1010	0404	1.5G<f≤3GHz	12±0.8dB@1.5G<f≤3GHz	50
PAT1010-X-13dB-C-CN	1010	0404	1.5G<f≤3GHz	13±0.8dB@1.5G<f≤3GHz	50
PAT1010-X-14dB-C-CN	1010	0404	1.5G<f≤3GHz	14±0.8dB@1.5G<f≤3GHz	50
PAT1010-X-15dB-C-CN	1010	0404	1.5G<f≤3GHz	15±0.8dB@1.5G<f≤3GHz	50
PAT1010-X-16dB-C-CN	1010	0404	1.5G<f≤3GHz	16±0.8dB@1.5G<f≤3GHz	50
PAT1010-X-20dB-C-CN	1010	0404	DC≤f≤3GHz	20±2.5dB@DC≤f≤3GHz	50

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

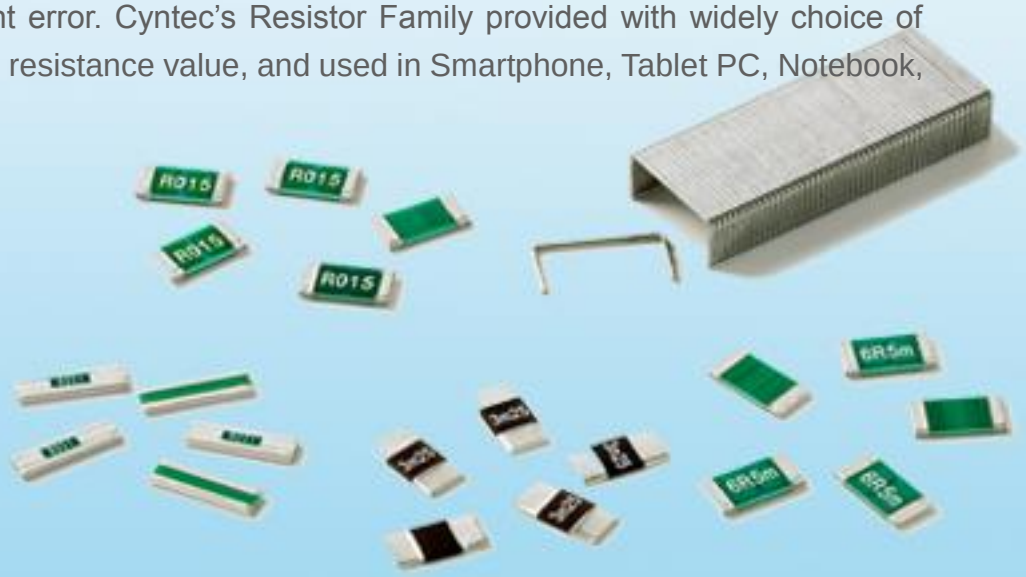
Cyntec offers various series of chip resistors based on thin film and thick film types to apply to all electronic equipment. The feature of chip resistor is high precision and miniaturization size that down to 01005size.

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

01005 0201 0402 0603 0805 1206 2010 2512 3637 4527 3720 2816 7520

01005

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-0204-G	0402	01005	1/32	0.3~2.0	± 1%(F) ± 2%(G) ± 5%(J)	0.3~ <1.0Ω: ± 200

Back to Product SPEC

0201

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-0603-C	0603	0201	1/10	0.020~<1.0	± 1%(F) ± 2%(G) ± 5%(J)	0.020~ < 0.070Ω: 0~50 0.070 ~ 1.0Ω: ± 200
RL-0603-D	0603	0201	1/20	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	1/10	0.5~<1.0 1.0~2.0	± 1%(F) ± 2%(G) ± 5%(J)	0.5~<1.0Ω: ±30 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	1/16	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	1/8	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	1/6	0.020~<1.0	± 1%(F) ± 2%(G) ± 5%(J)	0.020 ~ <0.070Ω: 0~500 0.070 ~ 1.0Ω: ± 100
RL0510T	1005	0402	1/8	0.075	± 1%(F) ± 5%(J)	*

RL0510S	1005	0402	1/8	0.1~4.7	± 1%(F) ± 2%(G)	*
RLT0510-1	1005	0402	1/16	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	1/8	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	1/6	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)				
RL0816T	1608	0603	1/8	0.015, 0.020~0.091	± 1%(F) ± 2%(G) ± 5%(J)	*
RL0816S	1608	0603	1/8	0.1~6.8	± 1%(F) ± 2%(G) ± 5%(J)	*
RL-0816-3	1608	0603	1/4	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-0816-4	1608	0603	1/2	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	1/3	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	1/8	0.050~10	± 1%(F) ± 2%(G) ± 5%(J)	0.050~<0.10Ω: ±300 0.10~<10Ω: ±200
RLT0816-3	1608	0603	1/4	0.050~10	± 1%(F) ± 2%(G) ± 5%(J)	0.050~<0.10Ω: ±300 0.10~<10Ω: ±200
RLT0816-C	1608	0603	1/10	0.050~10	± 1%(F) ± 2%(G) ± 5%(J)	0.050~<0.10Ω: ±300 0.10~<10Ω: ±200

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	1/2	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
RL-1220-4S	2012	0805	1/2	0.010~1.0	± 1%(F) ± 2%(G) ± 5%(J)	0.010~1.0Ω: 0~250
RL1220T	2012	0805	1/4	0.010~0.082	± 1%(F) ± 2%(G) ± 5%(J)	*
RL1220S	2012	0805	1/4	0.1~10	± 1%(F) ± 2%(G) ± 5%(J)	*
RL-1220-F	2012	0805	1/3W	0.01~1.0	± 1%(F)	0.010~1.0Ω: 0~250
RLW-2012-4	2012	0805	1/2W	0.005~0.030	± 2%(G)	0.005~0.030Ω: 0~200
RLW-2012-F	2012	0805	1/3W	0.005~0.030	± 2%(G)	0.005~0.030Ω: 0~200
RLW-2012-6	2012	0805	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

Back to Product SPEC

1206

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL1632T4F	1632	1206	1	0.001~0.003	± 1%(F) ± 2%(G) ± 3%(H) ± 5%(J)	0.001: ±150 0.002~0.003Ω: ±100
RL1632W-4	1632	1206	1/2	0.001~0.010	± 1%(F) ± 2%(G) ± 5%(J)	0.001~0.010Ω: ±150
RL1632W-6	1632	1206	1	0.001~0.010	± 1%(F) ± 2%(G) ± 5%(J)	0.001~0.010Ω: ±150

RL1632H	1632	1206	1/2	0.005~0.010 >0.010~0.150	± 1%(F) ± 2%(G) ± 5%(J)	0.005~0.010Ω: ±100 >0.010~0.150Ω: ±50
RL-1632-6C	1632	1206	1	0.005~0.040	± 1%(F) ±2%(G) ± 5%(J)	0.005Ω: 0~300 0.010~0.040Ω: ±100
RLT1632-4	1632	1206	1/2	0.05Ω ~ 10	± 1%(F) ±2%(G) ± 5%(J)	0.05 ~ <0.1Ω: 0~+250 0.1~<10Ω: 0~+200
RLT1632-F	1632	1206	1/3	0.05Ω ~ 10	± 1%(F) ±2%(G) ± 5%(J)	0.05 ~ <0.1Ω: 0~+250 0.1~<10Ω: 0~+200

Back to Product SPEC

2010

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL2550H	5025	2010	1/2	0.005~0.010 >0.010~0.050	± 1%(F) ±2%(G) ± 5%(J)	0.005~0.010Ω ± 100 >0.010~0.050Ω± 50
RL2550W	5025	2010	1	0.005~0.010 >0.010~0.050	± 1%(F) ±2%(G) ± 5%(J)	0.005~0.010Ω ± 100 >0.010~0.050Ω± 50
RL2550L	5025	2010	3/4	0.005~0.010 >0.010~0.050	± 1%(F) ±2%(G) ± 5%(J)	0.005~0.010Ω ± 100 >0.010~0.050Ω± 50

Back to Product SPEC

2512

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-3264-6C	6432	2512	1	0.003~0.1	± 1%(F) ±2%(G) ± 5%(J)	0.003~0.1Ω: ±100
RL-3264-9W	6432	2512	2	0.0012 0.002~0.004 0.005~0.075	± 1%(F) ±2%(G) ± 5%(J)	0.0012Ω: 0~500 0.002~0.004Ω: ± 200 0.005~0.075Ω: ± 100
RL-3264-9W (AEC-Q200)	6432	2512	2	0.002~0.004 0.005~0.050	± 1%(F) ±2%(G) ± 5%(J)	0.002~0.004Ω: ±200 0.005~0.050Ω: ±100
RL-3264-0W	6432	2512	3	0.002~0.004 0.005~0.050	± 1%(F) ±2%(G) ± 5%(J)	0.002~0.004Ω: ± 200 0.005~0.050Ω: ± 100

RL-3264-0W (AEC-Q200)	6432	2512	3	0.002~0.004 0.005~0.050	± 1%(F) ±2%(G) ± 5%(J)	0.002~0.004Ω: ±200 0.005~0.050Ω: ±100
RLT3264-6	6432	2512	1	0.05 ~ 1.0	± 1%(F) ±2%(G) ± 5%(J)	0.05 ~ <0.1Ω: 0~+200 0.1~<1.0Ω: 0~+100
RLT3264-9	6432	2512	2	0.05 ~ <0.1 0.1 ~ 0.55	± 1%(F) ±2%(G) ± 5%(J)	0.05~ <0.1Ω: ±150 0.1 ~ 0.55 Ω: ±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	3	0.001~<0.002 0.002~0.010	± 1%(F) ±2%(G) ± 5%(J)	0.001~<0.002: 0~150 0.002~0.010: ±100

Back to Product SPEC

4527

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-4527-0W		4527	3	0.01~0.12	± 1%(F) ±2%(G) ± 5%(J)	0.01~0.12Ω: ±75
RL-4527-0W (AEC-Q200)		4527	3	0.01~0.12	± 1%(F) ±2%(G) ± 5%(J)	0.01~0.12Ω: ±75
RL-4527-JW		4527	5	0.01~0.12	± 1%(F) ±2%(G) ± 5%(J)	0.01~0.12Ω: ±75
RL-4527-JW (AEC-Q200)		4527	5	0.01~0.12	± 1%(F) ±2%(G) ± 5%(J)	0.01~0.12Ω: ±75

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	1	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

2816

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RL-2816SL-9	7042	2816	2W	0.01~0.1	± 1%(F) ±2%(G) ± 5%(J)	0.01 ~ 0.1Ω: ±75
RL-2816SL-9 (AEC-Q200)	7042	2816	2W	0.01~0.1	± 1%(F) ±2%(G) ± 5%(J)	0.01 ~ 0.1Ω: ±75

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	0.001~0.020	± 1%(F) ±2%(G) ± 5%(J)	0.001 ~ 0.005Ω: ±100 0.010 ~ 0.020Ω: 0~200
RL7520W	7520	3008	2W	0.003~0.004	± 1%(F) ±2%(G) ± 5%(J)	*
				0.005~0.47	± 1%(F) ±2%(G)	*

Back to Product SPEC

RESISTOR

03015 01005 0201 0402 0603 0805 1206

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)	1.0Ω~9.1Ω:-200~600 10Ω~91Ω:±300 100Ω~10MΩ:±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~9.1Ω:-200~600 10Ω~91Ω:±300 100Ω~10MΩ:±200

Back to Product SPEC

0402

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RR0510X	1005	0402	1/16W	10~97.6Ω 100~100kΩ	±0.1%(B) ±0.5%(D)	10Ω~97.6Ω: ±100 100.0Ω~100.0KΩ:±25 / ±50
PFR05X	1005	0402	1/16W	10~100K	±0.5%(D) ±1.0%(F) ±5.00%(J)	10Ω~97.6Ω: ±100 100.0Ω~100.0KΩ:±25 / ±50

Back to Product SPEC

0603

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				

RR0816X	1608	0603	1/10W	10~360K	±0.1%(B) ±0.5%(D)	10.0Ω~91.0Ω:±50 100.0Ω~33.0KΩ:±25 36KΩ~360.0KΩ:±25 /±100
PFR08S	0816	0603	1/10W	5~91 100~1M	±0.1%(B) ±0.5%(D)	5Ω ~ 91Ω: ±300 100Ω~1MΩ: ±100

Back to Product SPEC

0805

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RP2012X	2012	0805	1/3W	0.01~100	±1.00%(F) ±2.00%(G) ±5.00%(J)	0.010Ω ~ 0.039Ω: 0~350 0.043Ω ~ 0.091Ω: 0~200 0.043Ω ~ 0.091Ω: 0~350 0.10Ω ~ 10Ω: 0~100 0.10Ω ~ 10Ω: 0~200 0.10Ω ~ 10Ω: 0~350 11Ω ~ 100Ω: 0~200
PFR12X	2012	0805	1/10W	10~1M	±1.00%(F) ±2.00%(G) ±5.00%(J)	10~1M: ±200 3.9~9.1, 1.1M~5.1M: ±250 1~3.6, 5.6M~10M: ±350 1~3.6, 5.6M~22M: ±350

Back to Product SPEC

1206

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
PFR16X	3216	1206	1/10W	10~1M	±1.00%(F) ±2.00%(G) ±5.00%(J)	10~1M: ±200 3.9~9.1, 1.1M~5.1M: ±250 1~3.6, 5.6M~10M: ±350 1~3.6, 5.6M~22M: ±350

Back to Product SPEC

RESISTOR NETWORK

0201 0402

0201

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RS062R	0.6*0.8	0201*2	31	10~1MΩ	±1.00%(F) ±5.00%(J)	±200
RS064R	0.6*1.4	0201*4	31	10~100KΩ 10~1MΩ	±1.00%(F) ±5.00%(J)	±200

Back to Product SPEC

0402

Part Number	Dimension		Power Rating (W)	Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/℃)
	Metric (mm)	Inch (mil)				
RS2N	1.0*1.0	0402*2	63	3.0Ω 5.1Ω 7.5Ω 10~1MΩ	±1.00%(F) ±5.00%(J)	±250

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℃	TCR (ppm/℃)	Operating Temperature Range
	sensor body	wire length			
SE10255018	3.2*1.6	None	1000Ω±0.48%	3750	-55℃~125℃
SE10205027-T4	3.2*1.6	None	1000Ω±0.12%	3850	-55℃~125℃
CYN-142-004	3.2*1.6	None	1000Ω±0.12%	3850	-55℃~125℃
SA10160552	1.7*2.8	10.0	100Ω±0.06%	3850	-50℃~500℃
SA10100627	1.7*2.8	10.0	100Ω±0.12%	3850	-50℃~500℃
SA50160536	2.0*3.0	10.0	500Ω±0.06%	3850	-50℃~500℃
SA50100594	2.0*3.0	10.0	500Ω±0.12%	3850	-50℃~500℃
SA10260557	2.0*3.0	10.0	1000Ω±0.06%	3850	-50℃~500℃
SA10200542	2.0*3.0	10.0	1000Ω±0.12%	3850	-50℃~500℃
SI10210508	2.0*5.0	8.0	1000Ω±0.24%	3850	-50℃~750℃
SA10101553	ψ3.0*6.0	8.0	100Ω±0.12%	3850	-50℃~500℃
SA50101528	ψ3.0*6.0	8.0	500Ω±0.12%	3850	-50℃~500℃
SA10201521	ψ3.0*6.0	8.0	1000Ω±0.12%	3850	-50℃~500℃
SB10232500N	4.7*4.7	14.0	1000Ω±0.06%	3750	-20℃~105℃
SB10242506N	4.7*4.7	14.0	1000Ω±0.12%	3750	-20℃~105℃
CYN-8Y-001	ψ6.0*106.0	550.0	500Ω±0.24%	3850	-40℃~538℃
CYN-8Y-002	ψ5.0*78.0	152.0	1000Ω±0.4%	3750	-40℃~538℃
CYN-8Y-003	ψ5.0*180.0	152.0	1000Ω±0.4%	3750	-40℃~538℃
CYN-8Y-004	ψ5.0*78.0	450.0	1000Ω±0.4%	3750	-40℃~350℃
CYN-8Y-005	ψ5.0*124.0	725.0	1000Ω±0.4%	3850	-40℃~750℃

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

5A 10A 12A 15A

5A

Part Number	Dimension			Operating Voltage	Heater Resistance	Operating Electric Power
	L (mm)	W (mm)	T (mm)			
FR-5432-5A-C1-B	5.4	3.2	1.35	4.0~7.0V	2.70±0.90Ω	4.5~28.0W
FR-5432-5A-C2-B	5.4	3.2	1.35	4.0~9.0V	3.22±0.32Ω	4.5~28.0W
FR-5432-5A-C3-B	5.4	3.2	1.35	7.0~14.0V	9.00±2.00Ω	4.5~28.0W

10A

Part Number	Dimension			Operating Voltage	Heater Resistance	Operating Electric Power
	L (mm)	W (mm)	T (mm)			
FC-5432-10A-C1-B	5.4	3.2	1.35	4.0~7.0V	1.25~2.65Ω	6.0~39.0W
FC-5432-10A-C2-B	5.4	3.2	1.35	4.0~9.0V	1.7~2.65Ω	6.0~48.0W
FC-5432-10A-C3-B	5.4	3.2	1.35	7.0~14.0V	5.0~8.0Ω	6.0~39.0W
FC-5432-10A-C4-B	5.4	3.2	1.35	10.5~19.5V	9.8~16.5Ω	6.0~39.0W
FC-5432-10A-C1-C	5.4	3.2	1.05	4.0~7.0V	1.25~2.65Ω	6.0~39.0W
FC-5432-10A-C2-C	5.4	3.2	1.05	4.0~9.0V	1.7~2.65Ω	6.0~48.0W
FC-5432-10A-C3-C	5.4	3.2	1.05	7.0~14.0V	5.0~8.0Ω	6.0~39.0W
FC-5432-10A-C4-C	5.4	3.2	1.05	10.5~19.5V	9.8~16.5Ω	6.0~39.0W
FC-5432-10A-H2-C	5.4	3.2	1.05	5.0~10.0V	2.5~4.2Ω	6.5~40.0W

12A

Part Number	Dimension			Operating Voltage	Heater Resistance	Operating Electric Power
	L (mm)	W (mm)	T (mm)			
FR-4030-12A-C1-C	4.0	3.0	1.05	3.00~4.50V	0.63~1.35Ω	6.0~39.0W
FR-4030-12A-C2-C	4.0	3.0	1.05	3.00~4.50V	2.00~3.20Ω	6.0~48.0W
FR-4030-12A-C3-C	4.0	3.0	1.05	7.00~14.0V	5.00~9.00Ω	6.0~39.0W
FR-4030-12A-C4-C	4.0	3.0	1.05	10.5~19.6V	9.80~18.0Ω	6.0~39.0W
FC-5432-12A-C1-B	5.4	3.2	1.35	4.0~7.0V	1.25~2.65Ω	6.0~39.0W
FC-5432-12A-C2-B	5.4	3.2	1.35	4.0~9.0V	1.7~2.65Ω	6.0~48.0W
FC-5432-12A-C3-B	5.4	3.2	1.35	7.0~14.0V	5.0~8.0Ω	6.0~39.0W
FC-5432-12A-C4-B	5.4	3.2	1.35	10.5~19.5V	9.8~16.5Ω	6.0~39.0W
FC-5432-12A-C1-C	5.4	3.2	1.05	4.0~7.0V	1.25~2.65Ω	6.0~39.0W
FC-5432-12A-C2-C	5.4	3.2	1.05	4.0~9.0V	1.7~2.65Ω	6.0~48.0W

FC-5432-12A-C3-C	5.4	3.2	1.05	7.0~14.0V	5.0~8.0Ω	6.0~39.0W
FC-5432-12A-C4-C	5.4	3.2	1.05	10.5~19.5V	9.8~16.5Ω	6.0~39.0W
FC-5432-12A-H3-C	5.4	3.2	1.05	8.0~15.0V	7.0~11.0Ω	6.5~40.0W
FC-5432-12A-L1-C	5.4	3.2	1.05	3.0~5.0V	0.63~1.35Ω	6.5~40.0W

15A

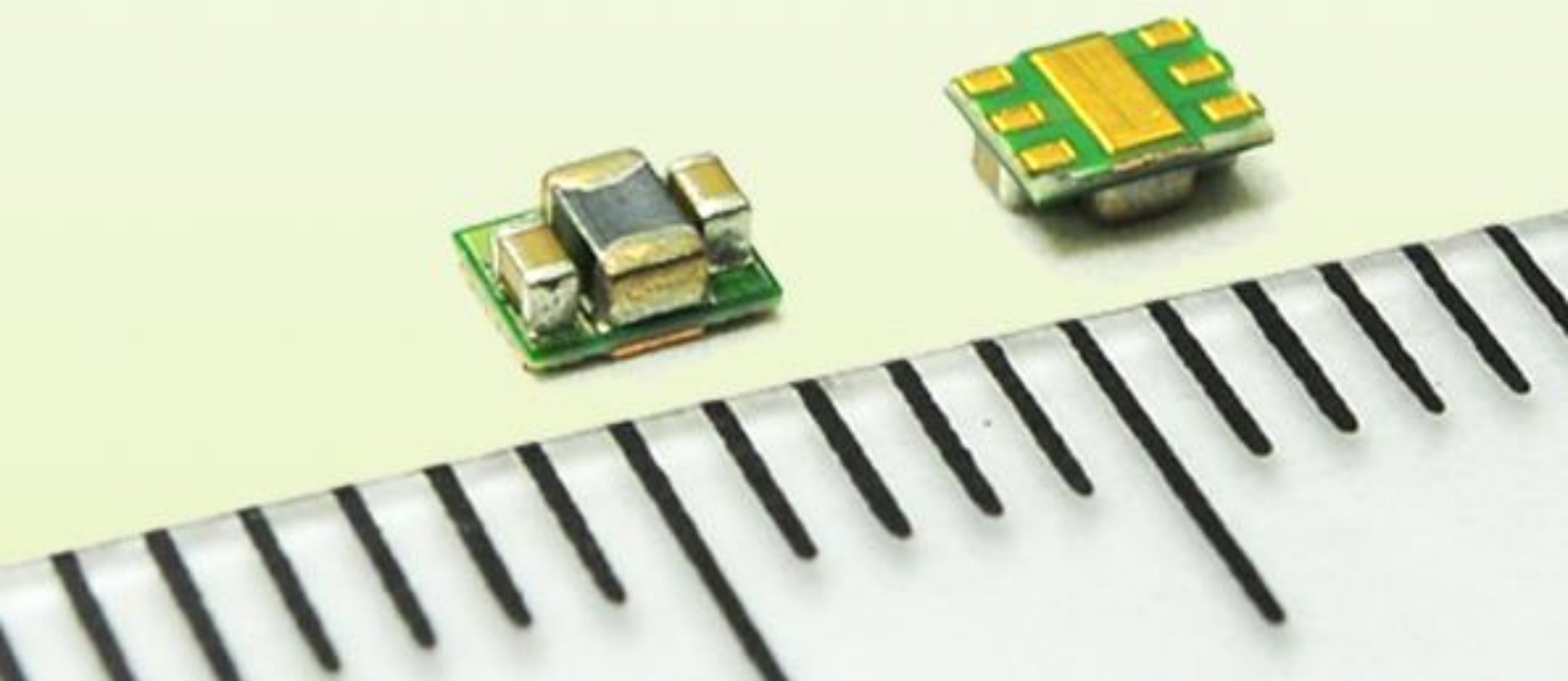
Part Number	Dimension			Operating Voltage	Heater Resistance	Operating Electric Power
	L (mm)	W (mm)	T (mm)			
FC-5432-15A-C1-B	5.4	3.2	1.35	4.0~7.0V	1.0~2.5Ω	6.5~35.0W
FC-5432-15A-C3-B	5.4	3.2	1.35	7.0~14.0V	5.0~9.0Ω	6.5~35.0W
FC-5432-15A-C4-B	5.4	3.2	1.35	10.5~19.5V	10.0~18.0Ω	6.5~35.0W
FC-5432-15A-C5-B	5.4	3.2	1.35	14.4~23.5V	15.8~31.8Ω	6.5~35.0W
FC-5432-15A-C1-C	5.4	3.2	1.05	4.0~7.0V	1.0~2.5Ω	6.5~35.0W
FC-5432-15A-C3-C	5.4	3.2	1.05	7.0~14.0V	5.0~9.0Ω	6.5~35.0W
FC-5432-15A-C4-C	5.4	3.2	1.05	10.5~19.5V	10.0~18.0Ω	6.5~35.0W
FC-5432-15A-C5-C	5.4	3.2	1.05	14.4~23.5V	15.8~31.8Ω	6.5~35.0W

POWER MODULE

Cyntec Power Modules are non-isolated DC-DC converters with fully integrated the controller chips, chokes and I/O capacitors into a single small module to convert the battery voltage to different voltages for difference IC’s. With our micro DC-DC module, design engineer can save up to 75% layout space compared to discrete solutions. Current density can be as high as 60A/inch^2. The tiny size is also suitable for replacing low efficiency LDO to greatly increase the battery life for portable device applications.

APPLICATION

Portable devices, like SSD, Smartphone, Tablet PC, Ultrabook, et



PRODUCT SPECIFICATION

0.6A 1A 2A 3A

0.6A

Part Number	Dimension			Input Voltage	Output Voltage	Package Type
	L (mm)	W (mm)	T (mm)	(V)	(V)	
HU3XX615	2.5	2.0	1.1	2.7~5.5	1.2, 1.8	DFN
HU3XX614	2.5	2.0	1.1	2.7~5.5	1.5, 2.5	DFN
HU4XX610	2.9	2.3	1.2	2.7~5.5	1.2, 1.8	LGA
HU4XX620	2.9	2.3	1.2	2.7~5.5	1.5, 2.5	DFN
HU3AD631	2.9	2.3	1.2	2.7~5.5	0.8~4.0	DFN

1A

Part Number	Dimension			Input Voltage	Output Voltage	Package Type
	L (mm)	W (mm)	T (mm)	(V)	(V)	
HU412A50	2.9	2.3	1.0	2.7~5.5	1.26	LGA
HU3ADA21	3.5	2.3	1.3	2.7~5.5	0.8~4.0	DFN

2A

Part Number	Dimension			Input Voltage	Output Voltage	Package Type
	L (mm)	W (mm)	T (mm)	(V)	(V)	
HU3ADB25	3.7	3.0	1.2	2.7~5.5	0.8~3.3	DFN

3A

Part Number	Dimension			Input Voltage	Output Voltage	Package Type
	L (mm)	W (mm)	T (mm)	(V)	(V)	
HU3ADC25	3.7	3.0	1.2	2.7~5.5	0.8~3.3	DFN

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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