

Power choke coils

PCMB series,

Lead free | Halogen free | RoHS Compliance

Features

- Low profile (3.0 mm max) and small size (7.3mm x6.6mm)
- Occupying small board spaces
- Low loss and high saturating current.

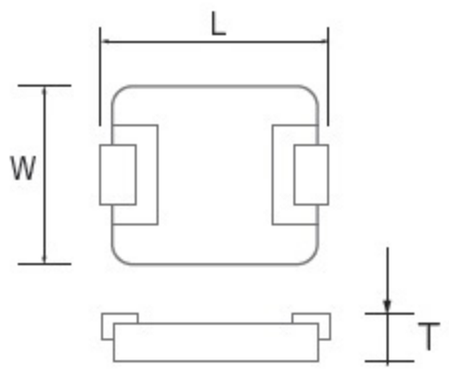
Applications

- PCs, servers, power sources, mobile devices, flat screen TVs etc.

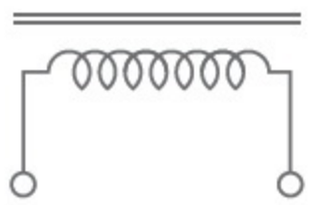
Specifications

*All made to order.

Dimensions · Electrical characteristics



Equivalent circuits



Series name	Size L×W×T (mm)	LO Inductance (uH)	DC resistance (mΩ) Typical	DC resistance (mΩ) Max	Rated current(A) Typical	Saturating current(A) Typical	Packaging
PCMB042T-XXXMS	4.15×4.0×1.8	0.1	3.5	4	12	22	2,000 pcs/reel
		0.22	6	6.6	9	12.5	
		0.47	12.5	14	7	9.5	
		1.0	24	27	4.5	7	
		1.5	38	46	4	6	
		2.2	52	58	3	5	
		3.3	74	87	2.5	4	
PCMB053T-XXXMS	4.7×4.85×2.8	0.68	11	12	8.5	14	1,000 pcs/reel
		1.0	13	14	7	11	
		1.2	15	16	6.5	11	
		1.5	18	20	6	10	
		2.2	29	35	5.5	9	
		3.3	32	38	5	7	
PCMB063T-XXXMS	6.6×6.95×2.8	0.1	1.5	1.7	32.5	60	
		0.2	2.4	3.0	24	41	
		0.22	2.5	2.8	23	40	
		0.25	3.0	3.5	21	39	
		0.33	3.5	3.9	20	30	
		0.47	4.0	4.2	17.5	26	
		0.56	4.7	5	16.5	25.5	
		0.68	5	5.5	15.5	25	
		0.82	6.7	8	13	24	
		0.9	9	10	11	22	
		1.0	9	10	11	22	
		1.2	10	12	10	20	
		1.5	14	15	9	18	
		2.2	18	20	8	14	
		2.5	20	22	7	14	
		3.3	28	30	6	13.5	
		4.7	37	40	5.5	10	
		6.8	54	60	4.5	8	
PCMB065T-XXXMS	6.6×7.05×4.8	0.2	0.9	1.2	32	50	
		0.22	1.2	1.4	30	50	
		0.36	3.2	3.5	21	25	
		0.40	3.2	3.5	20	23	
		0.47	3.5	3.9	20	23	
		0.56	3.4	3.6	20	18	
		0.68	3.9	4.2	18	16	
		0.82	4.6	4.9	16.5	17	
		1.0	5.6	6.5	13	15	
		1.2	6	7.5	11	12	
		1.5	6.7	7.5	11	12	
		2.2	11.2	12.5	8	12	
		3.3	19.9	20.9	7	8	
		4.7	23	25	6.5	7	
		8.2	40	43	5.5	5.5	
PCMB103T-XXXMS	10×11.15×2.8	0.36	1.3	1.6	23	28	500 pcs/reel
		0.47	2.1	2.5	23	26	
		0.56	2.4	3	22	24	
		0.68	2.9	3.4	21	23	
		1.0	5.3	6	13	18	
		1.5	6.5	7.5	13	20	
		2.2	8	9	13	16	
		3.3	14.5	16	9	14	
		4.7	20.5	22.5	7	13	
		8.2	35	45	5	8.5	
		10	50	55	5	7.5	
PCMB103E-XXXMS	10×11.15×3.3	1.0	2.7	3.0	20	27	
PCMB104T-XXXMS	10×11×3.8	0.15	0.5	0.65	40	75	500 pcs/reel
		0.19	0.7	0.8	38	60	
		0.22	0.9	1.0	35	60	
		0.36	1.05	1.2	30	50	
		0.39	1.1	1.2	31	45	
		0.41	1.1	1.3	30	60	
		0.47	1.6	1.8	26	40	
		0.56	1.6	1.8	25	33	
		0.68	2.4	2.7	22	39	
		0.88	2.7	3.0	20	38	
		1.0	3	3.3	18	28	
		1.5	3.8	4.2	16	32	
		1.8	4.5	5	15	15	
		2.0	5.2	5.8	14	14	
		2.2	6.0	7	12	18	
		3.3	10.8	11.8	10	16	
		4.7	17	20	8.5	15	
		5.6	20	23	7.5	14	
		6.8	22.5	25	6.5	9	
		10	27.5	30	7.5	8.5	
		15	40	45	6.25	7.0	
		22	60	66	5.0	5.5	
		33	85	92	4.4	5.0	
		47	130	145	3.3	3.5	
		68	178	195	2.3	3.0	
PCMB104E-XXXMS	10×11×4.3	1.0	2.7	3.2	22	34	
		2.2	5.8	7	14	16	
		3.3	11	13.2	11	14.5	
		4.7	13.2	15	10	13	
		5.6	16	18.5	8.5	10.5	
		6.8	21.5	24	7.5	9.5	
PCMB105T-R47MS	10×11×4.8	0.47	0.95	1.1	36	50	
PCMB133E-XXXMS	12.6×13.45×3.3	0.22	1.1	1.3	38	65	500 pcs/reel
		0.33	1.3	1.5	36.5	62	
		0.39	1.1	1.3	38	65	
		0.47	1.7	2	32	55	
		0.56	1.8	2.2	29	51	
		0.62	1.8	2.2	29	51	
		0.68	2.3	2.5	28	49	
		1.0	3.3	3.5	24	40	
		1.5	5.1	5.5	19	35	
		2.2	7.2	8.0	16	29	
		3.3	10	12	12	27	

Rated current : the current that increases the temperature by 40℃
Saturating current : The current that reduces inductance by 30% (PCMB)
※Contact us for details.

Part numbering system

PCMB 13**-*** M S

Size — Part code
042T=4.15*4.0*1.8mm, 053T=4.7*4.85*2.8mm
063T=6.6*6.95*2.8mm, 065T=6.6*7.05*4.8mm
103T=10*11.15*2.8mm, 104T=10*11*3.8mm
104E=10*11*4.3mm, 133E=12.6*13.45*3.3mm

Inductance value (R56=0.56mH, R68=0.68mH)

Inductance tolerance M=±20%

Material : refer to the table for electrical characteristics