

# Power Choke Coil

## PCMC series, PCMB series



- Small size of 7.3mm×6.6mm and low tap of 3.0mm max
- Excellent loss characteristics and high saturation current

### Applications

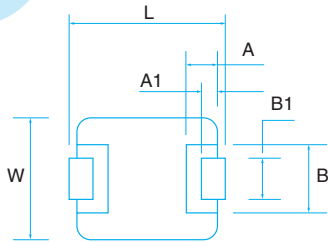
- \*High speed drive DC/DC inverter for server, router etc.
- \*CPU power for note PC and desktop PC

RoHS compliant

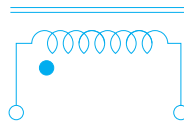
Completely lead free

## SPECIFICATIONS

### Mechanical



### Equivalent circuit



Dimension (Inch Size)	PCMC063	PCMC103		PCMC104		PCMC105T	PCMC133	PCMC135
		103T	103E	104T	104E			
L	7.3max.	11.5±0.35		11.5max.		11.15±0.35	13.8max.	13.8max.
W	6.6±0.2	10±0.3		10±0.2		10±0.3	12.6±0.2	12.6±0.2
T	3.0max.	2.8±0.2	3.3±0.2	4.0max.	4.5max.	4.8±0.2	3.5max.	5.0max.
A	2.0±0.1	2.5±0.1		2.5±0.1		2.5±0.1	2.5±0.1	2.5±0.1
A1	1.3±0.3	2.0±0.5		2.0±0.5		2.0±0.5	2.0±0.5	2.0±0.5
B	3.6±0.2	5.0±0.2		5.0±0.2		5.0±0.2	6.0±0.2	6.0±0.2
B1	3.0±0.3	3.0±0.2		3.0±0.2		3.0±0.2	4.0±0.3	4.0±0.3

(unit : mm)

### Electrical

#### 063 type

PCMC063T-***MN	L0(μH) Inductance	Rdc(mΩ)		Rated current (A)	Saturation current (A)
		Typical	MAX.		
PCMC063T-R10MN	0.10	1.5	1.7	32.5	60.0
PCMC063T-R20MN	0.20	2.4	3.0	24.0	41.0
PCMC063T-R22MN	0.22	2.5	2.8	23.0	40.0
PCMC063T-R33MN	0.33	3.5	3.9	20.0	30.0
PCMC063T-R47MN	0.47	4.0	4.2	17.5	26.0
PCMC063T-R68MN	0.68	5.0	5.5	15.5	25.0
PCMC063T-R82MN	0.82	6.7	8.0	13.0	24.0
PCMC063T-1R0MN	1.00	9.0	10.0	11.0	22.0
PCMC063T-1R2MN	1.20	10.0	12.0	10.0	20.0
PCMC063T-1R5MN	1.50	14.0	15.0	9.0	18.0
PCMC063T-2R2MN	2.20	18.0	20.0	8.0	14.0
PCMC063T-3R3MN	3.30	28.0	30.0	6.0	13.5
PCMC063T-4R7MN	4.70	37.0	40.0	5.5	10.0
PCMC063T-6R8MN	6.80	54.0	60.0	4.5	8.0

PCMB063T-***M*	L0(μH) Inductance	Rdc(mΩ)		Rated current (A)	Saturation current (A)
		Typical	MAX.		
PCMB063T-8R2MS	8.20	54.0	60.0	4.5	6.0
PCMB063T-100MS	10.00	62.0	68.0	4.0	5.5
PCMB063T-1R0MT	1.00	6.7	7.5	14.0	12.0
PCMB063T-2R2MT	2.20	14.3	15.5	10.0	10.0
PCMB063T-3R3MT	3.30	22.6	24.0	8.5	8.0
PCMB063T-4R7MT	4.70	32.5	35.0	7.0	5.0

Rated current : Current that will increase temperature by 40°C

Saturating current : The current that reduces inductance by 20% (PCMC), 30% (PCMB)

Packaging : 500 piece reel for PCMC135T, PCMC133E, PCMC (B) 104, 1000 piece reel for PCMC (B) 063T

#### 103, 104, 105 type

PCMC104T-***MN	L0(μH) Inductance	Rdc(mΩ)		Rated current (A)	Saturation current (A)
		Typical	MAX.		
PCMC104T-R22MN	0.22	0.90	1.00	35.0	60.0
PCMC104T-R68MN	0.68	2.40	2.70	22.0	39.0
PCMC104T-R88MN	0.88	2.70	3.00	20.0	38.0
PCMC104T-1R5MN	1.50	3.80	4.20	16.0	33.0
PCMC104T-2R2MN	2.20	6.70	7.00	12.0	27.0

PCMB104T-***MN 103, 105	L0(μH) Inductance	Rdc(mΩ)		Rated current (A)	Saturation current (A)
		Typical	MAX.		
PCMB103T-R36MS	0.36	1.30	1.6	23.0	28.0
PCMB103T-R47MS	0.47	2.10	2.5	20.0	26.0
PCMB103T-8R2MS	8.20	35.00	45.0	5.0	8.5
PCMB103E-1R0MS	1.00	2.70	3.0	20.0	27.0
PCMB104T-R36MT	0.36	1.05	1.2	30.0	50.0
PCMB104T-R56MT	0.56	1.60	1.8	25.0	33.0
PCMB104T-1R0MT	1.00	3.00	3.3	18.0	28.0
PCMB104T-1R8MS	1.80	4.50	5.0	15.0	15.0
PCMB104T-2R0MS	2.00	5.20	5.8	14.0	14.0
PCMB104T-2R2MS	2.20	6.00	7.0	12.0	18.0
PCMB104E-2R2MS	2.20	5.80	7.0	14.0	16.0
PCMB104T-3R3MS	3.30	10.80	11.8	10.0	16.0
PCMB104E-3R3MS	3.30	11.00	13.2	11.0	14.5
PCMB104E-4R7MS	4.70	13.20	15.0	10.0	13.0
PCMB104E-6R8MS	6.80	21.50	24.0	7.5	9.5
PCMB104T-100MS	10.00	27.50	30.0	6.0	6.0
PCMB105T-R47MS	0.47	0.95	1.1	36.0	50.0

#### 133 type

PCMC133E-***MF	L0(μH) Inductance	Rdc(mΩ)		Rated current (A)	Saturation current (A)
		Typical	MAX.		
PCMC133E-R56MF	0.56	1.80	2.20	29	51
PCMC133E-R68MF	0.68	2.30	2.50	28	49
PCMC133E-1R0MF	1.00	3.30	3.50	24	40
PCMC133E-2R2MF	2.20	7.20	8.00	16	29

#### 135 type

PCMC135T-***MF	L0(μH) Inductance	Rdc(mΩ)		Rated current (A)	Saturation current (A)
		Typical	MAX.		
PCMC135T-R36MF	0.36	0.77	1.10	41	75
PCMC135T-R47MF	0.47	1.10	1.30	38	65
PCMC135T-R50MF	0.50	1.20	1.50	36	55
PCMC135T-R56MF	0.56	1.20	1.50	36	55
PCMC135T-R62MF	0.62	1.50	1.70	34	54
PCMC135T-R68MF	0.68	1.50	1.70	34	54
PCMC135T-1R0MF	1.00	2.10	2.50	29	50
PCMC135T-1R5MF	1.50	3.40	4.10	23	48
PCMC135T-2R2MF	2.20	4.60	5.50	20	32
PCMC135T-3R3MF	3.30	7.70	9.20	15	32

## PART NUMBER

PCMC 13\*\* - \*\*\* M N(S,T)

