PCS Series — SMD Shielded Power Inductor

Features

- Provides high power and high saturation
- Provides magnetic shielding against radiation
- Electrode directly connected to ferrite core
- For Inductance values outside those listed in the datasheet contact factory
- Find Environmental information and Packaging specs in related supplimental documents
- Operating Tempearature from -40C to +105C

Applications

- Power Supply for VTRs
- Personal Computers
- DC/DC converters
- LCD televisions
- Handheld communication

Inductance and Current ranges

• PCS62B	2.9 ~ 330 µH	1.94 ~ 0.19 A
• PCS64B	12 ~ 1000 µH	1.35 ~ 0.14 A
• PCS73	10 ~ 1000 µH	1.68 ~ 0.16 A
• PCS74	6.8 ~ 1000 µH	3.00 ~ 0.18 A
• PCS124	3.9 ~ 330 µH	6.5 ~ 0.5 A
• PCS125	1.3 ~ 1000 µH	8.0 ~ 0.4 A
• PCS127	1.2 ~ 220 µH	9.8 ~ 2.5 A

How to Order

PCS	62B	M	T	101
SEI Type	Dimensions	Tolerance	Packaging	Inductance

Type	Description
PCS	SMD Power Inductor

Code	Dimensions(mm)
62B	6.2x6.6x3.0
64B	6.2x6.6x5.0
73	7.3x7.3x3.4
74	7.3x7.3x4.5
124	12x12x4.5
125	12x12x6.0
127	12x12x8.0

Code	Tolerance
M	±20%
P	+40/-20%

Code	Inductance
1R1	1.1 µH
470	47 µH
101	100 µH
102	1000 µH

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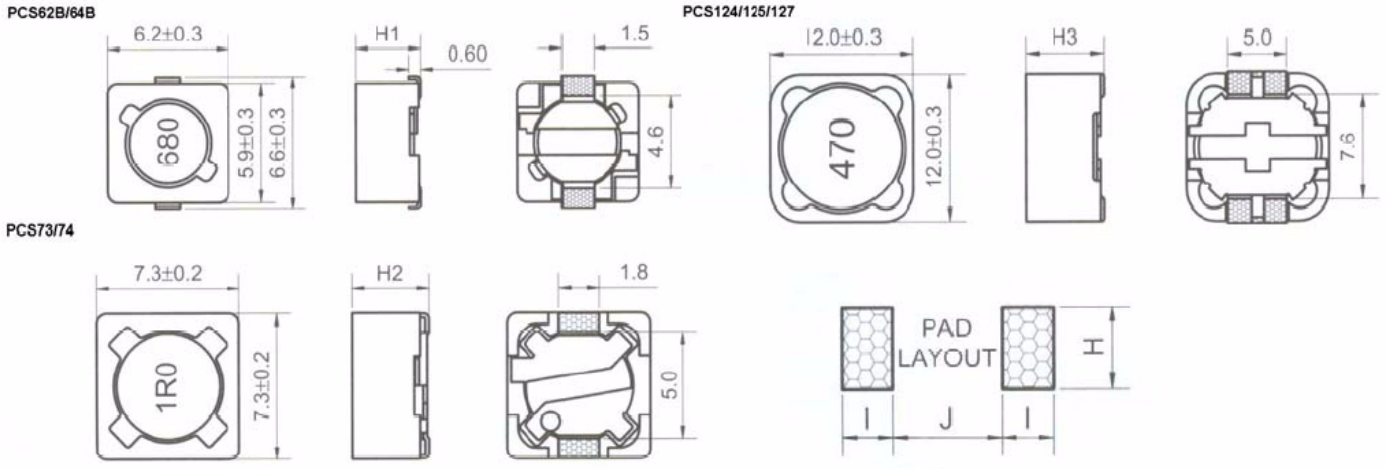

Mechanical Specifications							
Type /Code	H_1 max.	H_2 max.	H_3 max.	H	I	J	Units
PCS62B	0.118 3.0	-	-	0.075 1.9	0.055 1.4	0.181 4.6	inches mm
PCS64B	0.197 5.0	-	-	0.075 1.9	0.055 1.4	0.181 4.6	inches mm
PCS73	-	0.134 3.4	-	0.087 2.2	0.063 1.6	0.189 4.8	inches mm
PCS74	-	0.177 4.5	-	0.087 2.2	0.063 1.6	0.189 4.8	inches mm
PCS124	-	-	0.177 4.5	0.213 5.4	0.114 2.9	0.276 7.0	inches mm
PCS125	-	-	0.236 6.0	0.213 5.4	0.114 2.9	0.276 7.0	inches mm
PCS127	-	-	0.315 8.0	0.213 5.4	0.114 2.9	0.276 7.0	inches mm

Operating Tempearature from -40C to +105C

Electrical Characteristics - PCS62B					
Part Number	L (µH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PCS62BPT2R9	2.9	7.67MHz	+40 / -20	0.068	1.94
PCS62BPT4R0	4.0	7.67MHz	+40 / -20	0.080	1.63
PCS62BPT5R5	5.5	7.67MHz	+40 / -20	0.096	1.40
PCS62BMT100	10	1KHz	20	0.150	1.10
PCS62BMT120	12	1KHz	20	0.200	1.00
PCS62BMT150	15	1KHz	20	0.230	0.90
PCS62BMT180	18	1KHz	20	0.270	0.80
PCS62BMT220	22	1KHz	20	0.340	0.74
PCS62BMT270	27	1KHz	20	0.380	0.66
PCS62BMT330	33	1KHz	20	0.450	0.59
PCS62BMT390	39	1KHz	20	0.490	0.54
PCS62BMT470	47	1KHz	20	0.690	0.50
PCS62BMT560	56	1KHz	20	0.780	0.46

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Electrical Characteristics - PCS62B					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS62BMT680	68	1KHz	20	1.070	0.42
PCS62BMT820	82	1KHz	20	1.210	0.38
PCS62BMT101	100	1KHz	20	1.390	0.34
PCS62BMT121	120	1KHz	20	1.900	0.31
PCS62BMT151	150	1KHz	20	2.180	0.28
PCS62BMT181	180	1KHz	20	2.770	0.26
PCS62BMT221	220	1KHz	20	3.120	0.23
PCS62BMT271	270	1KHz	20	4.380	0.22
PCS62BMT331	330	1KHz	20	4.940	0.19

Electrical Characteristics - PCS64B					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS64BMT100	10	1KHz	20	0.12	1.35
PCS64BMT120	12	1KHz	20	0.13	1.22
PCS64BMT150	15	1KHz	20	0.18	1.11
PCS64BMT180	18	1KHz	20	0.24	1.02
PCS64BMT220	22	1KHz	20	0.27	0.91
PCS64BMT270	27	1KHz	20	0.30	0.82
PCS64BMT330	33	1KHz	20	0.33	0.74
PCS64BMT390	39	1KHz	20	0.37	0.69
PCS64BMT470	47	1KHz	20	0.52	0.62
PCS64BMT560	56	1KHz	20	0.56	0.58
PCS64BMT680	68	1KHz	20	0.63	0.51
PCS64BMT820	82	1KHz	20	0.71	0.46
PCS64BMT101	100	1KHz	20	1.03	0.42
PCS64BMT121	120	1KHz	20	1.15	0.38
PCS64BMT151	150	1KHz	20	1.68	0.35
PCS64BMT181	180	1KHz	20	1.87	0.32
PCS64BMT221	220	1KHz	20	2.08	0.29
PCS64BMT271	270	1KHz	20	2.37	0.26
PCS64BMT331	330	1KHz	20	2.67	0.23
PCS64BMT391	390	1KHz	20	2.94	0.22
PCS64BMT471	470	1KHz	20	3.93	0.20
PCS64BMT561	560	1KHz	20	5.43	0.18
PCS64BMT681	680	1KHz	20	7.32	0.17
PCS64BMT821	820	1KHz	20	8.24	0.15
PCS64BMT102	1000	1KHz	20	9.26	0.14

Electrical Characteristics - PCS73					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS73MT100	10	1KHz	20	0.072	1.68

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Electrical Characteristics - PCS73					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS73MT120	12	1KHz	20	0.098	1.52
PCS73MT150	15	1KHz	20	0.130	1.33
PCS73MT180	18	1KHz	20	0.140	1.20
PCS73MT220	22	1KHz	20	0.190	1.07
PCS73MT270	27	1KHz	20	0.210	0.96
PCS73MT330	33	1KHz	20	0.240	0.91
PCS73MT390	39	1KHz	20	0.320	0.77
PCS73MT470	47	1KHz	20	0.360	0.76
PCS73MT560	56	1KHz	20	0.470	0.68
PCS73MT680	68	1KHz	20	0.520	0.61
PCS73MT820	82	1KHz	20	0.690	0.57
PCS73MT101	100	1KHz	20	0.790	0.50
PCS73MT121	120	1KHz	20	0.890	0.49
PCS73MT151	150	1KHz	20	1.270	0.43
PCS73MT181	180	1KHz	20	1.450	0.39
PCS73MT221	220	1KHz	20	1.650	0.35
PCS73MT271	270	1KHz	20	2.310	0.32
PCS73MT331	330	1KHz	20	2.620	0.28
PCS73MT391	390	1KHz	20	2.940	0.26
PCS73MT471	470	1KHz	20	4.180	0.24
PCS73MT561	560	1KHz	20	4.670	0.22
PCS73MT681	680	1KHz	20	5.730	0.19
PCS73MT821	820	1KHz	20	6.540	0.18
PCS73MT102	1000	1KHz	20	9.440	0.16

Electrical Characteristics - PCS74					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS74MT6R8	6.8	1KHz	20	0.045	3.00
PCS74MT100	10	1KHz	20	0.049	1.84
PCS74MT120	12	1KHz	20	0.058	1.71
PCS74MT150	15	1KHz	20	0.081	1.47
PCS74MT180	18	1KHz	20	0.091	1.31
PCS74MT220	22	1KHz	20	0.110	1.23
PCS74MT270	27	1KHz	20	0.150	1.12
PCS74MT330	33	1KHz	20	0.170	0.96
PCS74MT390	39	1KHz	20	0.230	0.91
PCS74MT470	47	1KHz	20	0.260	0.88
PCS74MT560	56	1KHz	20	0.350	0.75
PCS74MT680	68	1KHz	20	0.380	0.69
PCS74MT820	82	1KHz	20	0.430	0.61
PCS74MT101	100	1KHz	20	0.610	0.60
PCS74MT121	120	1KHz	20	0.660	0.52
PCS74MT151	150	1KHz	20	0.880	0.46
PCS74MT181	180	1KHz	20	0.980	0.42

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Electrical Characteristics - PCS74					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS74MT221	220	1KHz	20	1.170	0.36
PCS74MT271	270	1KHz	20	1.640	0.34
PCS74MT331	330	1KHz	20	1.860	0.32
PCS74MT391	390	1KHz	20	2.850	0.29
PCS74MT471	470	1KHz	20	3.010	0.26
PCS74MT561	560	1KHz	20	3.620	0.23
PCS74MT681	680	1KHz	20	4.630	0.22
PCS74MT821	820	1KHz	20	5.200	0.20
PCS74MT102	1000	1KHz	20	6.000	0.18

Electrical Characteristics - PCS124					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS124MT3R9	3.9	100KHz	20	0.015	6.50
PCS124MT4R7	4.7	100KHz	20	0.018	5.70
PCS124MT6R8	6.8	100KHz	20	0.023	4.90
PCS124MT100	10	100KHz	20	0.028	4.50
PCS124MT120	12	100KHz	20	0.038	4.00
PCS124MT150	15	100KHz	20	0.050	3.20
PCS124MT180	18	100KHz	20	0.057	3.10
PCS124MT220	22	100KHz	20	0.066	2.90
PCS124MT270	27	100KHz	20	0.080	2.80
PCS124MT330	33	100KHz	20	0.097	2.70
PCS124MT390	39	100KHz	20	0.132	2.10
PCS124MT470	47	100KHz	20	0.150	1.90
PCS124MT560	56	100KHz	20	0.190	1.80
PCS124MT680	68	100KHz	20	0.220	1.50
PCS124MT820	82	100KHz	20	0.260	1.30
PCS124MT101	100	100KHz	20	0.308	1.20
PCS124MT121	120	100KHz	20	0.380	1.10
PCS124MT151	150	100KHz	20	0.530	0.95
PCS124MT181	180	100KHz	20	0.620	0.58
PCS124MT221	220	100KHz	20	0.700	0.80
PCS124MT271	270	100KHz	20	0.876	0.60
PCS124MT331	330	100KHz	20	0.990	0.50

Electrical Characteristics - PCS125					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS125PT1R3	1.3	7.96MHz	+40 / -20	0.012	8.00
PCS125PT2R1	2.1	7.96MHz	+40 / -20	0.014	7.00
PCS125PT3R1	3.1	7.96MHz	+40 / -20	0.017	6.00
PCS125MT3R3	3.3	7.96MHz	20	0.014	6.75

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Electrical Characteristics - PCS125					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS125PT4R4	4.4	7.96MHz	+40 / -20	0.020	5.00
PCS125PT5R8	5.8	7.96MHz	+40 / -20	0.021	4.40
PCS125PT7R5	7.5	7.96MHz	+40 / -20	0.024	4.20
PCS125MT100	10	1KHz	20	0.025	4.00
PCS125MT120	12	1KHz	20	0.027	3.50
PCS125MT150	15	1KHz	20	0.030	3.30
PCS125MT180	18	1KHz	20	0.034	3.00
PCS125MT220	22	1KHz	20	0.036	2.80
PCS125MT270	27	1KHz	20	0.051	2.30
PCS125MT330	33	1KHz	20	0.057	2.10
PCS125MT390	39	1KHz	20	0.068	2.00
PCS125MT470	47	1KHz	20	0.075	1.80
PCS125MT560	56	1KHz	20	0.110	1.70
PCS125MT680	68	1KHz	20	0.120	1.50
PCS125MT820	82	1KHz	20	0.140	1.40
PCS125MT101	100	1KHz	20	0.160	1.30
PCS125MT121	120	1KHz	20	0.170	1.10
PCS125MT151	150	1KHz	20	0.230	1.00
PCS125MT181	180	1KHz	20	0.290	0.90
PCS125MT221	220	1KHz	20	0.400	0.80
PCS125MT271	270	1KHz	20	0.460	0.75
PCS125MT331	330	1KHz	20	0.510	0.68
PCS125MT391	390	1KHz	20	0.690	0.65
PCS125MT471	470	1KHz	20	0.770	0.58
PCS125MT561	560	1KHz	20	0.860	0.54
PCS125MT681	680	1KHz	20	1.200	0.48
PCS125MT821	820	1KHz	20	1.340	0.43
PCS125MT102	1000	1KHz	20	1.530	0.40

Electrical Characteristics - PCS127					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS127PT1R2	1.2	100KHz	+40 / -20	0.0070	9.80
PCS127PT2R4	2.4	100KHz	+40 / -20	0.0115	8.00
PCS127PT3R5	3.5	100KHz	+40 / -20	0.0135	7.50
PCS127PT4R7	4.7	100KHz	+40 / -20	0.0158	6.80
PCS127PT5R6	5.6	100KHz	20	0.0180	6.70
PCS127PT6R1	6.1	100KHz	+40 / -20	0.0176	6.60
PCS127PT7R6	7.6	100KHz	+40 / -20	0.0200	5.90
PCS127MT100	10	1KHz	20	0.0216	5.40
PCS127MT120	12	1KHz	20	0.0243	4.90
PCS127MT150	15	1KHz	20	0.0270	4.50
PCS127MT180	18	1KHz	20	0.0392	3.90
PCS127MT220	22	1KHz	20	0.0432	3.60

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Electrical Characteristics - PCS127					
Part Number	**L (µH)**	**Test Freq (Hz)**	**Tolerance (%)**	**DCR (Ω) Max**	**I DC (A) Max**
PCS127MT270	27	1KHz	20	0.0459	3.40
PCS127MT330	33	1KHz	20	0.0648	3.00
PCS127MT390	39	1KHz	20	0.0729	2.75
PCS127MT470	47	1KHz	20	0.1000	2.50
PCS127MT101	100	1KHz	20	0.2200	1.70
PCS127MT121	120	1KHz	20	0.2500	1.60
PCS127MT221	220	1KHz	20	0.3900	1.16