

PCDS Series — SMD Shielded Power Inductor

Features

- High power and high saturation
- Silver plated for low cost design
- Provides magnetic shielding
- For Inductance values outside those listed in the datasheet contact factory
- Find Environmental information and Packaging specs in related supplemental documents



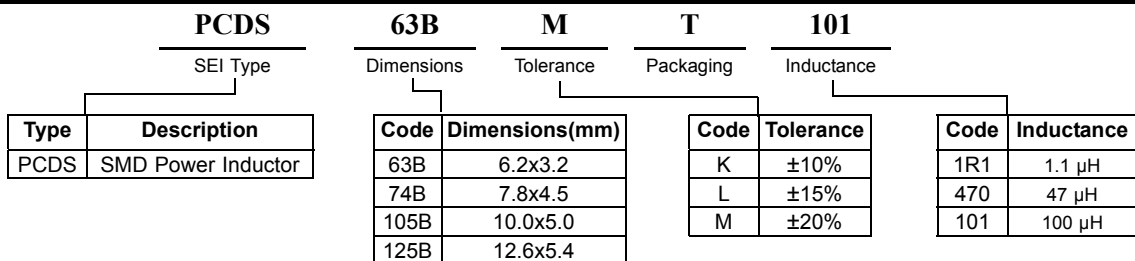
Applications

- Power supply for VTRs
- Notebook PCs
- DC/DC converters
- LCD televisions
- Portable communication

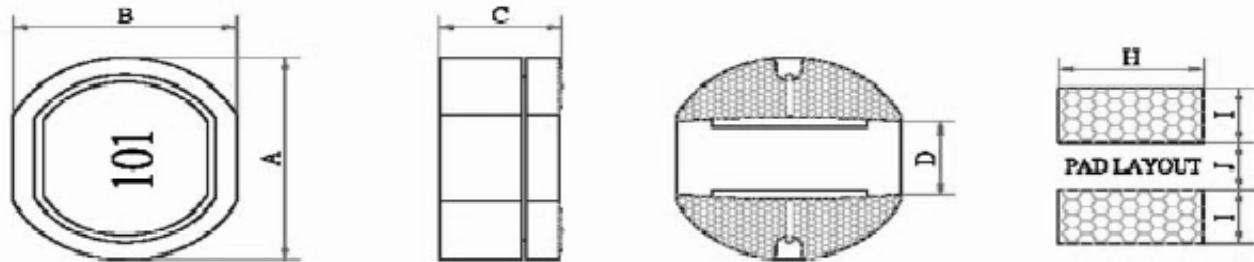
Inductance and Current ranges

- PCDS63B 10 ~ 68 μ H 1.0 ~ 0.42 A
- PCDS74B 10 ~ 270 μ H 1.65 ~ 0.33 A
- PCDS105B 10 ~ 470 μ H 2.06 ~ 0.33 A
- PCDS125B 10 ~ 820 μ H 2.65 ~ 0.36 A

How to Order



PCDS Series — SMD Shielded Power Inductor



Mechanical Specifications

Type /Code	A	B	C	D	H	I	J	Units
PCDS63B	0.244 ± 0.012 6.2 ± 0.30	0.220 ± 0.012 5.6 ± 0.30	0.126 ± 0.012 3.2 ± 0.30	0.067 1.7	0.217 5.5	0.089 2.25	0.067 1.7	inches mm
PCDS74B	0.307 ± 0.014 7.8 ± 0.35	0.276 ± 0.014 7.0 ± 0.35	0.177 ± 0.016 4.5 ± 0.40	0.075 1.9	0.295 7.5	0.157 4.0	0.079 2.0	inches mm
PCDS105B	0.394 ± 0.016 10.0 ± 0.40	0.354 ± 0.016 9.0 ± 0.40	0.197 ± 0.020 5.0 ± 0.50	0.098 2.5	0.374 9.5	0.197 5.0	0.098 2.5	inches mm
PCDS125B	0.496 ± 0.020 12.6 ± 0.50	0.457 ± 0.020 11.6 ± 0.50	0.213 ± 0.020 5.4 ± 0.50	0.118 3.0	0.472 12.0	0.236 6.0	0.118 3.0	inches mm

Electrical Characteristics - PCDS63B

Part Number	L (µH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PCDS63BMT100	10	2.52 MHz	20	0.14	1.00
PCDS63BMT120	12	2.52 MHz	20	0.16	0.94
PCDS63BMT150	15	2.52 MHz	20	0.18	0.86
PCDS63BMT180	18	2.52 MHz	20	0.25	0.78
PCDS63BMT220	22	2.52 MHz	20	0.32	0.76
PCDS63BMT270	27	2.52 MHz	20	0.36	0.64
PCDS63BLT330	33	2.52 MHz	15	0.41	0.61
PCDS63BLT390	39	2.52 MHz	15	0.47	0.53
PCDS63BLT470	47	2.52 MHz	15	0.51	0.50
PCDS63BLT560	56	2.52 MHz	15	0.72	0.46
PCDS63BLT680	68	2.52 MHz	15	0.82	0.42

Electrical Characteristics - PCDS74B

Part Number	L (µH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PCDS74BMT100	10	2.52 MHz	20	0.07	1.65
PCDS74BMT120	12	2.52 MHz	20	0.07	1.57
PCDS74BMT150	15	2.52 MHz	20	0.08	1.39
PCDS74BMT180	18	2.52 MHz	20	0.10	1.29
PCDS74BMT220	22	2.52 MHz	20	0.13	1.12
PCDS74BMT270	27	2.52 MHz	20	0.16	1.06
PCDS74BLT330	33	2.52 MHz	15	0.18	0.97
PCDS74BLT390	39	2.52 MHz	15	0.18	0.91

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Electrical Characteristics - PCDS74B

Part Number	L (μH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PCDS74BLT470	47	2.52 MHz	15	0.27	0.80
PCDS74BLT560	56	2.52 MHz	15	0.29	0.76
PCDS74BLT680	68	2.52 MHz	15	0.33	0.68
PCDS74BLT820	82	2.52 MHz	15	0.43	0.62
PCDS74BKT101	100	1.0 KHz	10	0.49	0.55
PCDS74BKT121	120	1.0 KHz	10	0.68	0.59
PCDS74BKT151	150	1.0 KHz	10	0.94	0.44
PCDS74BKT181	180	1.0 KHz	10	1.00	0.40
PCDS74BKT221	220	1.0 KHz	10	1.18	0.36
PCDS74BKT271	270	1.0 KHz	10	1.30	0.33

Electrical Characteristics - PCDS105B

Part Number	L (μH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PCDS105BMT100	10	2.52 MHz	20	0.06	2.06
PCDS105BMT120	12	2.52 MHz	20	0.07	1.94
PCDS105BMT150	15	2.52 MHz	20	0.07	1.72
PCDS105BMT180	18	2.52 MHz	20	0.08	1.58
PCDS105BMT220	22	2.52 MHz	20	0.08	1.42
PCDS105BMT270	27	2.52 MHz	20	0.10	1.32
PCDS105BLT330	33	2.52 MHz	15	0.11	1.16
PCDS105BLT390	39	2.52 MHz	15	0.12	1.10
PCDS105BLT470	47	2.52 MHz	15	0.14	1.00
PCDS105BLT560	56	2.52 MHz	15	0.19	0.93
PCDS105BLT680	68	2.52 MHz	15	0.21	0.85
PCDS105BLT820	82	2.52 MHz	15	0.28	0.79
PCDS105BKT101	100	1.0 KHz	10	0.34	0.72
PCDS105BKT121	120	1.0 KHz	10	0.37	0.63
PCDS105BKT151	150	1.0 KHz	10	0.51	0.55
PCDS105BKT181	180	1.0 KHz	10	0.57	0.50
PCDS105BKT221	220	1.0 KHz	10	0.78	0.47
PCDS105BKT271	270	1.0 KHz	10	0.87	0.41
PCDS105BKT331	330	1.0 KHz	10	1.20	0.37
PCDS105BKT391	390	1.0 KHz	10	1.34	0.35
PCDS105BKT471	470	1.0 KHz	10	1.50	0.33

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Electrical Characteristics - PCDS125B					
Part Number	L (μ H)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PCDS125BMT100	10	2.52 MHz	20	0.05	2.65
PCDS125BMT120	12	2.52 MHz	20	0.05	2.50
PCDS125BMT150	15	2.52 MHz	20	0.06	2.45
PCDS125BMT180	18	2.52 MHz	20	0.06	2.40
PCDS125BMT220	22	2.52 MHz	20	0.07	2.20
PCDS125BMT270	27	2.52 MHz	20	0.08	2.00
PCDS125BMT330	33	2.52 MHz	20	0.10	1.80
PCDS125BMT390	39	2.52 MHz	20	0.11	1.65
PCDS125BMT470	47	2.52 MHz	20	0.12	1.50
PCDS125BMT560	56	2.52 MHz	20	0.15	1.38
PCDS125BMT680	68	2.52 MHz	20	0.17	1.26
PCDS125BMT820	82	2.52 MHz	20	0.20	1.14
PCDS125BMT101	100	1.0 KHz	20	0.25	1.05
PCDS125BMT121	120	1.0 KHz	20	0.28	0.95
PCDS125BMT151	150	1.0 KHz	20	0.40	0.85
PCDS125BMT181	180	1.0 KHz	20	0.48	0.77
PCDS125BMT221	220	1.0 KHz	20	0.52	0.70
PCDS125BMT271	270	1.0 KHz	20	0.70	0.63
PCDS125BMT331	330	1.0 KHz	20	0.80	0.57
PCDS125BMT391	390	1.0 KHz	20	1.08	0.52
PCDS125BMT471	470	1.0 KHz	20	1.20	0.48
PCDS125BMT561	560	1.0 KHz	20	1.34	0.44
PCDS125BMT681	680	1.0 KHz	20	1.78	0.40
PCDS125BMT821	820	1.0 KHz	20	2.00	0.36