

PTS Series — SMD Shielded Power Inductor

Features

- Shielded construction to protect nearby components
- Electrode attached directly to ferrite RI core
- Provides good saturation handling for package size
- For Inductance values outside those listed in the datasheet contact factory
- Find Environmental information and Packaging specs in related supplemental documents



Applications

- Server computers
- Hand held battery powered devices
- Low profile, high current power supplies
- Personal computers
- DC/DC converters

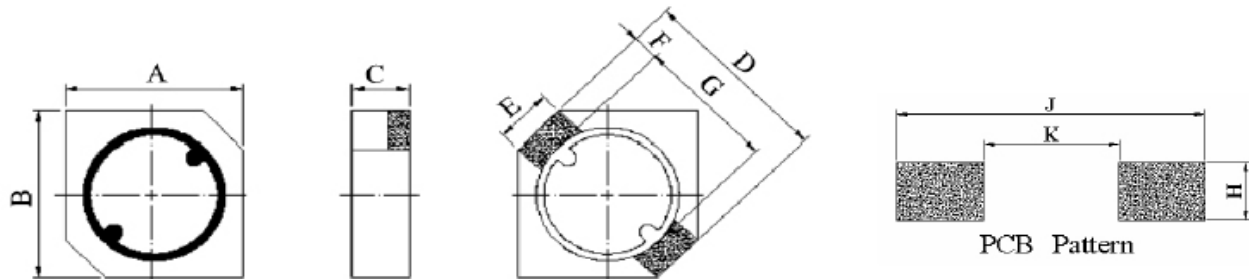
Inductance and Current ranges

- PTS2210 1.0 ~ 220 μ H 2.32 ~ 0.02 A
- PTS2218 1.0 ~ 100 μ H 1.69 ~ 0.16 A
- PTS2225 1.0 ~ 270 μ H 1.81 ~ 0.10 A

How to Order

PTS		2218		M		T		101	
SEI Type		Dimensions		Tolerance		Packaging		Inductance	
Type	Description	Code	Dimensions(mm)	Code	Tolerance	Code	Inductance	Code	Inductance
PTS	SMD Power Inductor	2210	3.1 x 3.1 x 1.25	M	\pm 20%	1R1	1.1 μ H	470	47 μ H
		2218	3.1 x 3.1 x 1.80	N	\pm 30%	101	100 μ H		
		2225	3.1 x 3.1 x 2.50						

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Mechanical Specifications - Standard

Type/ Code	A	B	C	D	E	F	G	H	J	K	Units
PTS2210	0.122 ± 0.012 3.10 ± 0.3	0.122 ± 0.012 3.10 ± 0.3	0.049 max. 1.25 max.	0.172 3.60	0.051 1.30	0.024 0.60	0.087 2.20	0.035 0.90	0.157 4.00	0.087 2.20	inches mm
PTS2218	0.122 ± 0.012 3.10 ± 0.3	0.122 ± 0.012 3.10 ± 0.3	0.071 ± 0.008 1.80 ± 0.2	0.172 3.60	0.051 1.30	0.024 0.60	0.087 2.20	0.035 0.90	0.157 4.00	0.087 2.20	inches mm
PTS2225	0.122 ± 0.012 3.10 ± 0.3	0.122 ± 0.012 3.10 ± 0.3	0.098 ± 0.008 2.50 ± 0.2	0.172 3.60	0.051 1.30	0.024 0.60	0.087 2.20	0.035 0.90	0.157 4.00	0.087 2.20	inches mm

Electrical Characteristics - PTS2210

Part Number	L (μH)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PTS2210-T1R0	1.0	20, 30	0.123	2.32
PTS2210-T1R2	1.2	20, 30	0.130	1.92
PTS2210-T1R5	1.5	20, 30	0.165	1.60
PTS2210-T1R7	1.7	20, 30	0.179	1.50
PTS2210-T1R8	1.8	20, 30	0.221	1.30
PTS2210-T2R2	2.2	20, 30	0.238	1.21
PTS2210-T2R6	2.6	20, 30	0.269	1.10
PTS2210-T2R7	2.7	20, 30	0.280	1.07
PTS2210-T3R0	3.0	20, 30	0.304	1.04
PTS2210-T3R3	3.3	20, 30	0.339	1.01
PTS2210-T3R9	3.9	20, 30	0.395	0.89
PTS2210-T4R1	4.1	20, 30	0.444	0.81
PTS2210-T4R7	4.7	20, 30	0.510	0.79
PTS2210-T5R6	5.6	20, 30	0.656	0.75
PTS2210-T6R3	6.3	20, 30	0.690	0.72
PTS2210-T6R8	6.8	20, 30	0.810	0.65
PTS2210-T8R2	8.2	20, 30	0.857	0.61
PTS2210-T100	10	20	1.071	0.54
PTS2210-T120	12	20	1.180	0.51
PTS2210-T150	15	20	1.667	0.44
PTS2210-T180	18	20	1.890	0.39
PTS2210-T200	20	20	2.100	0.36
PTS2210-T220	22	20	2.349	0.34

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Electrical Characteristics - PTS2210

Part Number	L (μ H)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PTS2210-T270	27	20	2.670	0.32
PTS2210-T330	33	20	3.520	0.28
PTS2210-T390	47	20	4.030	0.27
PTS2210-T470	47	20	4.550	0.25
PTS2210-T500	50	20	5.000	0.23
PTS2210-T680	68	20	6.100	0.22
PTS2210-T820	82	20	10.400	0.20
PTS2210-T101	100	20	11.000	0.16
PTS2210-T121	120	20	16.500	0.09
PTS2210-T151	150	20	17.000	0.06
PTS2210-T221	220	20	24.670	0.02

Electrical Characteristics - PTS2218

Part Number	L (μ H)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PTS2218-T1R0	1.0	20, 30	0.055	1.69
PTS2218-T2R2	2.2	20, 30	0.130	1.22
PTS2218-T2R7	2.7	20, 30	0.160	1.08
PTS2218-T3R3	3.3	20, 30	0.190	0.99
PTS2218-T3R9	3.9	20, 30	0.250	0.85
PTS2218-T4R7	4.7	20, 30	0.280	0.80
PTS2218-T5R6	5.6	20, 30	0.290	0.78
PTS2218-T6R2	6.2	20, 30	0.310	0.76
PTS2218-T6R8	6.8	20, 30	0.360	0.70
PTS2218-T8R2	8.2	20, 30	0.430	0.65
PTS2218-T100	10	20	0.550	0.51
PTS2218-T120	12	20	0.660	0.48
PTS2218-T150	15	20	0.820	0.47
PTS2218-T180	18	20	1.070	0.41
PTS2218-T220	22	20	1.210	0.36
PTS2218-T270	27	20	1.510	0.31
PTS2218-T330	33	20	2.01	0.28
PTS2218-T390	39	20	2.270	0.26
PTS2218-T470	47	20	2.540	0.24
PTS2218-T560	56	20	3.340	0.22
PTS2218-T680	68	20	3.670	0.20
PTS2218-T820	82	20	4.180	0.19
PTS2218-T101	100	20	5.140	0.16

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Electrical Characteristics - PTS2225				
Part Number	L (μ H)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
PTS2225-T1R0	1.0	20, 30	0.042	1.81
PTS2225-T1R2	1.2	20, 30	0.051	1.56
PTS2225-T1R5	1.5	20, 30	0.057	1.39
PTS2225-T1R8	1.8	20, 30	0.065	1.28
PTS2225-T2R2	2.2	20, 30	0.073	1.25
PTS2225-T2R7	2.7	20, 30	0.082	1.10
PTS2225-T3R3	3.3	20, 30	0.088	1.00
PTS2225-T3R9	3.9	20, 30	0.110	0.90
PTS2225-T4R7	4.7	20, 30	0.130	0.84
PTS2225-T5R6	5.6	20, 30	0.190	0.80
PTS2225-T6R8	6.8	20, 30	0.220	0.73
PTS2225-T8R2	8.2	20, 30	0.280	0.66
PTS2225-T100	10	20	0.360	0.54
PTS2225-T120	12	20	0.400	0.49
PTS2225-T150	15	20	0.450	0.48
PTS2225-T180	18	20	0.550	0.42
PTS2225-T220	22	20	0.690	0.37
PTS2225-T270	27	20	0.880	0.33
PTS2225-T330	33	20	1.030	0.30
PTS2225-T390	39	20	1.320	0.28
PTS2225-T470	47	20	1.450	0.26
PTS2225-T560	56	20	1.850	0.23
PTS2225-T680	68	20	2.050	0.20
PTS2225-T820	82	20	2.740	0.19
PTS2225-T101	100	20	3.790	0.16
PTS2225-T121	120	20	4.020	0.15
PTS2225-T151	150	20	5.320	0.13
PTS2225-T181	180	20	5.810	0.13
PTS2225-T221	220	20	6.530	0.11
PTS2225-T271	270	20	9.130	0.10