SMD Power Inductor—PTS

Applications

- Notebook/PC/Server applications
- Low profile , high current power supplies
- Battery powered devices
- DC/DC converters

Inductance and rated current ranges

- PTS2210 1.0～220μH 2.32～0.02A
- PTS2218 1.0～100μH 1.69～0.16A
- PTS2225 1.0～270μH 1.81～0.10A
- Test equipment:

  L: HP4284A Precision LCR meter.

  DCR: Milli-ohm meter.

  Electrical Specification at 25℃

Product Identification

PTS	2210	M	T	1R0
(1)	(2)	(3)	(4)	(5)

(1)Type: SMD Power Inductors

(2)Dimensions (mm):2210=3.1×3.1×1.25

(3)Tolerance: M=20%,N=30%

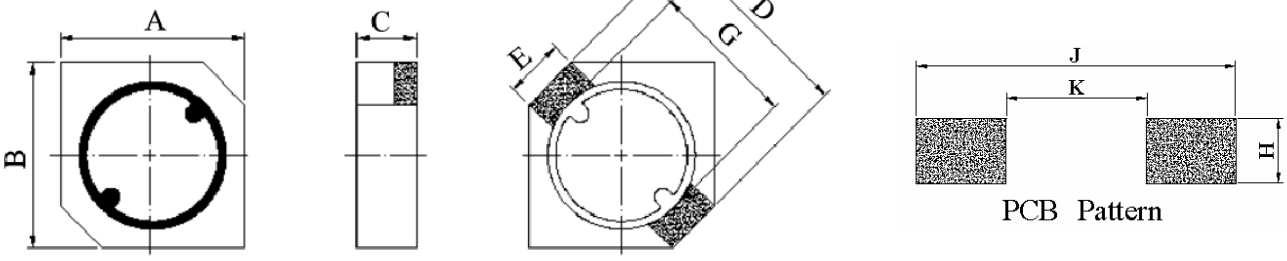
(4) Packaging style: T (Tape and Reel)

(5) Inductance:1R1=1.1μH,R47=0.47μH

Features

- Shielded construction
- Small size with the electrode attached to the ferrite RI core directly.
- Excellent property either high saturation for surface mounting.

Dimension



Unit: mm

Codes	A	B	C	D (Ref.)	E (Ref.)	F (Ref.)	G (Ref.)	H (Ref.)	J (Ref.)	K (Ref.)
PTS2210	3.10±0.3	3.10±0.3	1.25 max	3.60	1.30	0.60	2.20	0.90	4.00	2.20
PTS2218	3.10±0.3	3.10±0.3	1.80±0.2	3.60	1.30	0.60	2.20	0.90	4.00	2.20
PTS2225	3.10±0.3	3.10±0.3	2.50±0.2	3.60	1.30	0.60	2.20	0.90	4.00	2.20

Electrical Characteristics
2210 / 2218 / 2225 TYPE

Part No.	L (uH)	Tol.	DC Resistance (Ω) Max			Rated DC current (Amp) Max		
			2210	2218	2225	2210	2218	2225
1R0	1	M ,N	0.123	0.055	0.042	2.32	1.69	1.81
1R2	1.2	M ,N	0.130		0.051	1.92		1.56
1R5	1.5	M ,N	0.165		0.057	1.6		1.39
1R7	1.7	M ,N	0.179			1.5		
1R8	1.8	M ,N	0.221		0.065	1.3		1.28
2R2	2.2	M ,N	0.238	0.13	0.073	1.21	1.22	1.25
2R6	2.6	M ,N	0.269			1.1		
2R7	2.7	M ,N	0.280	0.16	0.082	1.07	1.08	1.1
3R0	3	M ,N	0.304			1.04		
3R3	3.3	M ,N	0.339	0.19	0.088	1.01	0.99	1
3R9	3.9	M ,N	0.395	0.25	0.11	0.89	0.85	0.9
4R1	4.1	M ,N	0.444			0.81		
4R7	4.7	M ,N	0.510	0.28	0.13	0.79	0.8	0.84
5R6	5.6	M ,N	0.656	0.29	0.19	0.75	0.78	0.8
6R2	6.2	M ,N		0.31			0.76	
6R3	6.3	M ,N	0.690			0.72		
6R8	6.8	M ,N	0.810	0.36	0.22	0.65	0.7	0.73
8R2	8.2	M ,N	0.857	0.43	0.28	0.61	0.65	0.66
100	10	M	1.071	0.55	0.36	0.54	0.51	0.54
120	12	M	1.180	0.66	0.4	0.51	0.48	0.49
150	15	M	1.667	0.82	0.45	0.44	0.47	0.48
180	18	M	1.890	1.07	0.55	0.39	0.41	0.42
200	20	M	2.100			0.36		
220	22	M	2.349	1.21	0.69	0.34	0.36	0.37
270	27	M	2.670	1.51	0.88	0.32	0.31	0.33
330	33	M	3.520	2.01	1.03	0.28	0.28	0.3
390	39	M	4.030	2.27	1.32	0.27	0.26	0.28
470	47	M	4.550	2.54	1.45	0.25	0.24	0.26
500	50	M	5.000			0.23		
560	56	M		3.34	1.85		0.22	0.23
680	68	M	6.100	3.67	2.05	0.22	0.2	0.2
820	82	M	10.400	4.18	2.74	0.2	0.19	0.19
101	100	M	11.000	5.14	3.79	0.16	0.16	0.16
121	120	M	16.500		4.02	0.09		0.15
151	150	M	17.000		5.32	0.06		0.13
181	180	M			5.81			0.13
221	220	M	24.670		6.53	0.02		0.11
271	270	M			9.13			0.1

1. Rated Current (IDC): 2210 The DC current when the inductance becomes 65% lower then its initial value. (Ta=25℃).
   2218 / 2225 The DC current when the inductance becomes 70% lower then its initial value. (Ta=25℃)
2. Test Frequency: 1.0uH~8.2uH @ 100KHz 0.25Vrms ; 10uH~270uH @ 1KHz 0.25Vrms
3. Operating temperature range -40 ~ +85℃