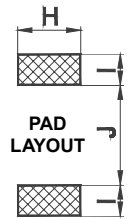
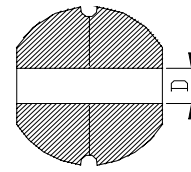
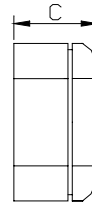
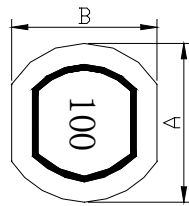


## Shielded SMD Power Inductor – PCDS



### Dimensions

Unit: mm

Type	A	B	C	D	H	I	J
PCDS63B	6.2±0.30	5.6±0.30	3.2±0.30	1.70	5.50	2.25	1.70
PCDS74B	7.8±0.35	7.0±0.35	4.5±0.40	1.90	7.50	4.00	2.00
PCDS105B	10.0±0.40	9.0±0.40	5.0±0.50	2.50	9.50	5.00	2.50
PCDS125B	12.6±0.50	11.6±0.50	5.4±0.50	3.00	12.00	6.00	3.00

### Features

- Silver Plated Type, Low cost design
- High power, High saturation inductors
- Ideal inductors for DC/DC converters
- With magnetically shielded against radiation
- Available on tape and reel for automatic surface mounting

### Inductance and rated current ranges

- PCDS63B 10~68μH 1.0~0.42A
- PCDS74B 4.7~270μH 3.15~0.33A
- PCDS105B 10~470μH 2.06~0.33A
- PCDS125B 10~820μH 2.65~0.36A
- Electrical specifications at 25°C

### Applications

- Power Supply for VTRs
- LCD Televisions
- Notebook PCs
- Portable Communication
- DC/DC Converters, etc.

### Characteristics

- Rated DC current: The current when the inductance becomes 25% lower than its initial value or the actual current when the temperature of coil increases to  $\Delta 40^{\circ}\text{C}$ . The smaller one is defined as Rated DC Current. ( $T_a=25^{\circ}\text{C}$ )
- Operating temperature range:  $-40\sim 85^{\circ}\text{C}$

### Product Identification

PCDS	63B	M	T	101
Product Type	Dimensions (AxBxC)	Inductor Tolerance	Packaging Style	Inductance
	63B: 6.2×5.6×3.2 74B: 7.8×7.0×4.5 105B: 10.0×9.0×5.0 125B: 12.6×11.6×5.4	M: $\pm 20\%$ N: $\pm 30\%$	T: Tape and Reel	1R1: 1.1μH 470: 47μH 101: 100μH

## ■ Electrical Characteristics

PCDS63B / 74B / 105B / 125B Type

Codes	L ( $\mu$ H)	Tolerance	Test Condition	DCR ( $\Omega$ ) max.				IDC (A) max.			
				63B	74B	105B	125B	63B	74B	105B	125B
4R7	4.7	N	100KHz, 0.25V	-	0.03	-	-	-	3.15	-	-
100	10	M	2.52MHz, 0.25V	0.14	0.07	0.06	0.05	1.00	1.65	2.06	2.65
120	12	M	2.52MHz, 0.25V	0.16	0.07	0.07	0.05	0.94	1.57	1.94	2.50
150	15	M	2.52MHz, 0.25V	0.18	0.08	0.07	0.06	0.86	1.39	1.72	2.45
180	18	M	2.52MHz, 0.25V	0.25	0.10	0.08	0.06	0.78	1.29	1.58	2.40
220	22	M	2.52MHz, 0.25V	0.32	0.13	0.08	0.07	0.76	1.12	1.42	2.20
270	27	M	2.52MHz, 0.25V	0.36	0.16	0.10	0.08	0.64	1.06	1.32	2.00
330	33	M	2.52MHz, 0.25V	0.41	0.18	0.11	0.10	0.61	0.97	1.16	1.80
390	39	M	2.52MHz, 0.25V	0.47	0.18	0.12	0.11	0.53	0.91	1.10	1.65
470	47	M	2.52MHz, 0.25V	0.51	0.27	0.14	0.12	0.50	0.80	1.00	1.50
560	56	M	2.52MHz, 0.25V	0.72	0.29	0.19	0.15	0.46	0.76	0.93	1.38
680	68	M	2.52MHz, 0.25V	0.82	0.33	0.21	0.17	0.42	0.68	0.85	1.26
820	82	M	2.52MHz, 0.25V	-	0.43	0.28	0.20	-	0.62	0.79	1.14
101	100	M	1KHz, 0.25V	-	0.49	0.34	0.25	-	0.55	0.72	1.05
121	120	M	1KHz, 0.25V	-	0.68	0.37	0.28	-	0.49	0.63	0.95
151	150	M	1KHz, 0.25V	-	0.94	0.51	0.40	-	0.44	0.55	0.85
181	180	M	1KHz, 0.25V	-	1.00	0.57	0.48	-	0.40	0.50	0.77
221	220	M	1KHz, 0.25V	-	1.18	0.78	0.52	-	0.36	0.47	0.70
271	270	M	1KHz, 0.25V	-	1.30	0.87	0.70	-	0.33	0.41	0.63
331	330	M	1KHz, 0.25V	-	-	1.20	0.80	-	-	0.37	0.57
391	390	M	1KHz, 0.25V	-	-	1.34	1.08	-	-	0.35	0.52
471	470	M	1KHz, 0.25V	-	-	1.50	1.20	-	-	0.33	0.48
561	560	M	1KHz, 0.25V	-	-	-	1.34	-	-	-	0.44
681	680	M	1KHz, 0.25V	-	-	-	1.78	-	-	-	0.40
821	820	M	1KHz, 0.25V	-	-	-	2.00	-	-	-	0.36