

- Features:
- High power and high saturation
  - Silver plated for low cost design
  - Provides magnetic shielding
  - Contact factory for inductance values outside those listed in the datasheet

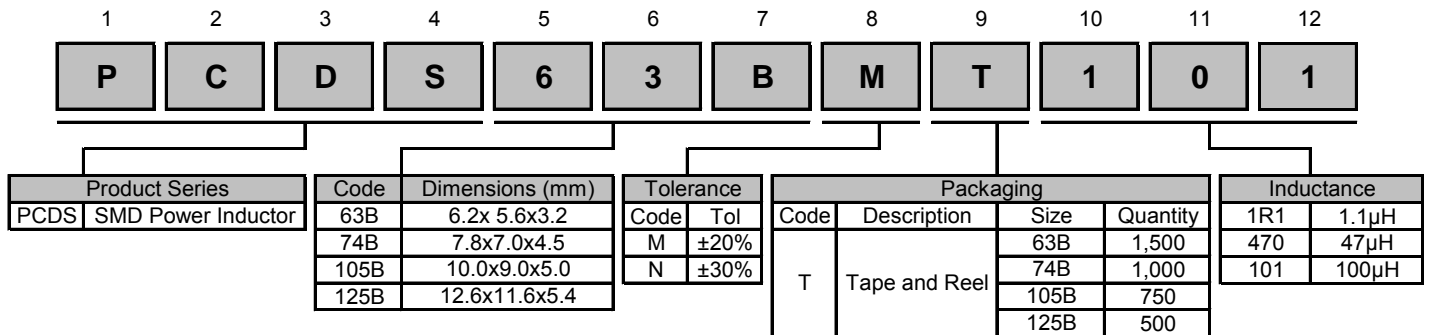


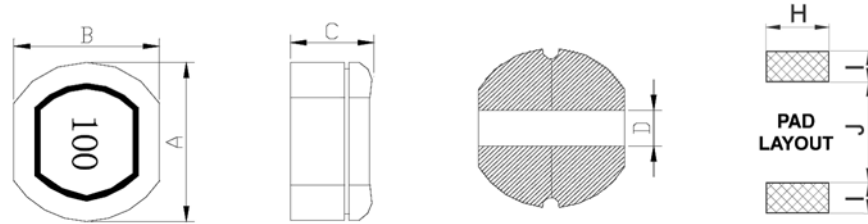
- Applications:
- Power supply for VTRs
  - Notebook PCs
  - DC/DC converters
  - LCD televisions
  - Portable communication

Inductance and Current Ranges		
Type	Inductance ( $\mu\text{H}$ )	Current Range (A)
PCDS63B	10 ~ 68	1 ~ 0.42
PCDS74B	4.7 ~ 270	3.15 ~ 0.33
PCDS105B	10 ~ 470	2.06 ~ 0.33
PCDS125B	10 ~ 820	2.65 ~ 0.36

Performance 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 ~ 85°C

### How to Order





### Mechanical Specifications

Type / Code	A	B	C	D	H	I	J	Unit
PCDS63B	0.24 ± 0.01	0.22 ± 0.01	0.13 ± 0.01	0.067	0.217	0.089	0.067	inches
	6.20 ± 0.30	5.60 ± 0.30	3.20 ± 0.30	1.70	5.50	2.25	1.70	mm
PCDS74B	0.31 ± 0.01	0.28 ± 0.01	0.18 ± 0.02	0.075	0.295	0.157	0.079	inches
	7.80 ± 0.35	7.00 ± 0.35	4.50 ± 0.40	1.90	7.50	4.00	2.00	mm
PCDS105B	0.39 ± 0.02	0.35 ± 0.02	0.20 ± 0.02	0.098	0.374	0.197	0.098	inches
	10.00 ± 0.40	9.00 ± 0.40	5.00 ± 0.50	2.50	9.50	5.00	2.50	mm
PCDS125B	0.50 ± 0.02	0.46 ± 0.02	0.21 ± 0.02	0.118	0.472	0.236	0.118	inches
	12.60 ± 0.50	11.60 ± 0.50	5.40 ± 0.50	3.00	12.00	6.00	3.00	mm

### Electrical Specifications

Type / Code	L (μH)	Tolerance	Test Condition	DCR (Ω) 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