

### 7. SPD Series (Shielded Type)

#### Applications

- Power supply for VTRs.
- Personal & Notebook computers.
- Smart Home Systems.
- Other various electronic appliances.

#### Features

- Compact, low profile with Rdc and large current.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- High power, high saturation inductors.



#### Inductance and Rated Current ranges

Part Series	Inductances range	Rated Current range
* SPD0628	1.0~1000μH	2.10~0.12A
* SPD0732	1.0~1000μH	2.40~0.20A (I <sub>rms</sub> ) ; 2.20~0.13A (I <sub>sat</sub> )
* SPD0745	1.0~1500μH	3.50~0.15A (I <sub>rms</sub> ) ; 4.00~0.10A (I <sub>sat</sub> )
* SPD1045	1.0~1500μH	12.00~0.40A (I <sub>rms</sub> ) ; 7.80~0.22A (I <sub>sat</sub> )
* SPD1255	6.0~1500μH	4.90~0.48A (I <sub>rms</sub> ) ; 3.60~0.29A (I <sub>sat</sub> )
* SPD1265	2.0~150μH	8.00~0.80A (I <sub>rms</sub> ) ; 10.00~1.00A (I <sub>sat</sub> )
* SPD1275	1.2~330μH	10.40~0.88A (I <sub>rms</sub> ) ; 13.00~1.10A (I <sub>sat</sub> )

(Dimension data (Refer to Fig. 1))

#### Characteristics

Test Frequency : 1.0KHz 0.5V

1. Saturation Rated Current (I<sub>sat</sub>) : The current when the inductance becomes 30% lower than its nominal value.

2. Temperature Rated Current (I<sub>rms</sub>) : The actual current when the temperature of coil becomes to T=40 . (T<sub>a</sub>=25 )

Operating temperature range : -40 ~+125 .

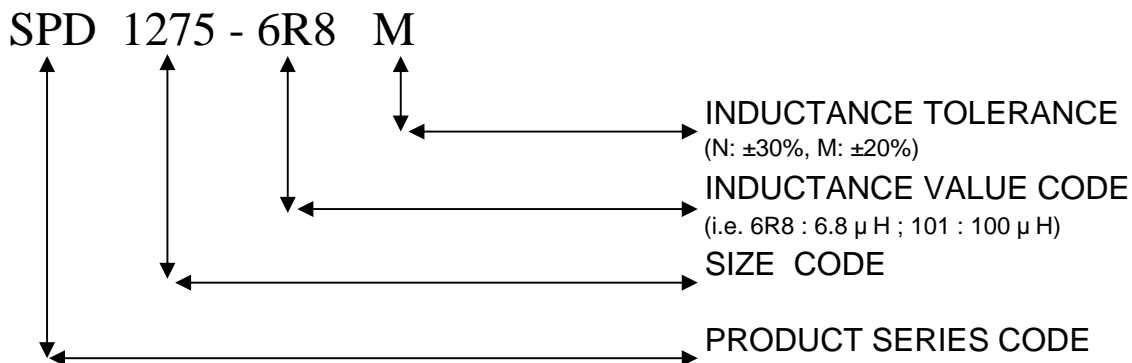
Test equipment :

L: HP4284A LCR meter.

DCR: Milli-ohm meter.

Electrical specifications at 25 .

#### Part Numbering System



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**Dimensions (mm)**

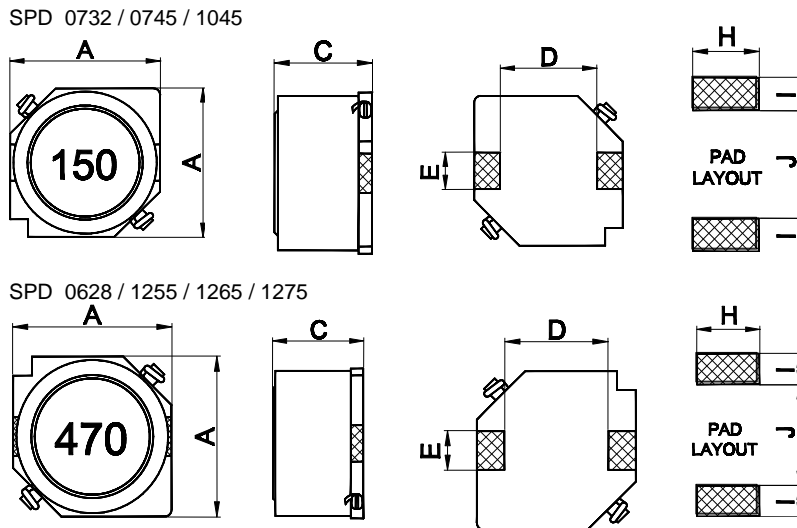


Fig. 1

Series	A	C	D	E	H	I	J
SPD0628	6.00±0.20	2.80±0.20	4.00	2.00	2.20	1.50	4.00
SPD0732	7.00±0.20	3.20±0.20	4.00	2.00	2.20	1.50	4.00
SPD0745	7.00±0.20	4.50±0.30	4.00	2.00	2.20	1.50	4.00
SPD1045	10.10±0.30	4.50±0.30	6.00	3.00	3.20	2.50	5.60
SPD1255	12.50±0.30	5.50±0.35	8.60	3.00	3.20	2.50	8.60
SPD1265	12.50±0.30	6.50±0.35	8.60	3.00	3.20	2.50	8.60
SPD1275	12.50±0.30	7.50±0.35	8.60	3.00	3.20	2.50	8.60

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Electrical Characteristics

SPD 1255 / 1265 / 1275 TYPE

Inductance Value Code	Tol.	L (μH)	DC Resistance ( ) ±20%			Rated DC Current (A) Max.					
						I rms			I sat		
			1255	1265	1275	1255	1265	1275	1255	1265	1275
1R2	M	1.2	-	-	0.007	-	-	10.40	-	-	13.00
2R0	M	2.0	-	0.012	0.008	-	8.00	8.80	-	10.00	11.00
2R7	M	2.7	-	-	0.009	-	-	8.00	-	-	10.00
3R3	M	3.3	-	-	0.010	-	-	7.60	-	-	9.50
3R9	M	3.9	-	-	0.010	-	-	7.20	-	-	9.00
4R2	M	4.2	-	0.015	-	-	5.80	-	-	7.30	-
5R6	M	5.6	-	-	0.012	-	-	6.20	-	-	7.80
6R0	M	6.0	0.016	-	-	4.90	-	-	3.60	-	-
6R8	M	6.8	-	-	0.013	-	-	5.90	-	-	7.20
7R0	M	7.0	-	0.018	-	-	4.50	-	-	5.70	-
100	M	10.0	0.022	0.020	0.016	4.30	4.50	4.40	3.40	5.00	5.50
150	M	15.0	0.026	0.024	0.018	3.90	4.40	3.70	2.80	4.20	4.70
220	M	22.0	0.034	0.032	0.026	3.40	2.80	3.50	2.30	3.50	4.00
330	M	33.0	0.042	0.041	0.039	3.10	2.20	3.40	1.90	2.80	3.20
390	M	39.0	-	-	0.044	-	-	3.10	-	-	3.00
470	M	47.0	0.062	0.058	0.053	2.50	1.90	3.00	1.60	2.40	2.70
560	M	56.0	0.075	0.075	0.069	2.30	1.70	1.80	1.45	2.20	2.30
680	M	68.0	0.083	0.079	0.078	2.20	1.60	2.00	1.30	2.00	2.00
820	M	82.0	-	-	0.110	-	-	1.50	-	-	1.95
101	M	100.0	0.117	0.123	0.125	1.80	1.30	1.50	1.10	1.60	1.90
121	M	120.0	-	0.184	-	-	1.00	-	-	1.30	-
151	M	150.0	0.190	0.273	0.175	1.40	0.80	1.30	0.88	1.00	1.60
180	M	180.0	-	-	0.200	-	-	1.20	-	-	1.45
221	M	220.0	0.270	-	0.258	1.20	-	1.00	0.72	-	1.30
331	M	330.0	0.410	-	0.370	1.00	-	0.88	0.59	-	1.10
471	M	470.0	0.520	-	-	0.88	-	-	0.49	-	-
681	M	680.0	0.760	-	-	0.73	-	-	0.43	-	-
102	M	1000.0	1.120	-	-	0.60	-	-	0.34	-	-
152	M	1500.0	1.730	-	-	0.48	-	-	0.29	-	-

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Operating temperature range : -40 ~+125 .