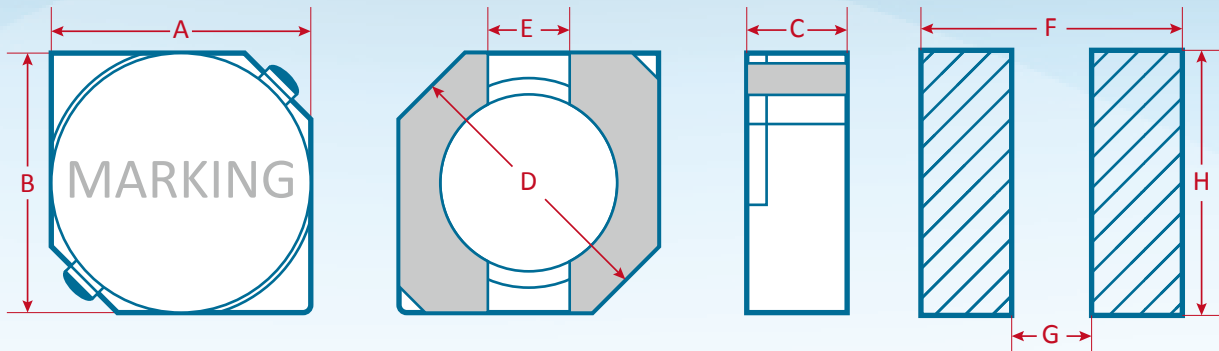




# SPC2 Series

## SMD Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
SPC6D28	6.7±0.3	6.7±0.3	3.0 Max.	9.6	2.0 Ref.	7.3 Typ.	2.0 Typ.	7.3 Typ.
SPC6D38	6.7±0.3	6.7±0.3	4.0 Max.	9.6	2.0 Ref.	7.3 Typ.	2.0 Typ.	7.3 Typ.

### SPC6D28

Part No.	Inductance (uH)	Test Freq.	DCR(Ω) Max.	Idc(A) Max.	Tolerance (±%)
SPC6D28MT1R0	1.0	100 KHz / 0.25V	0.012	6.15	20
SPC6D28MT2R2	2.2	100 KHz / 0.25V	0.018	4.8	20
SPC6D28NT3R3	3.3	100 KHz / 0.25V	0.026	2.8	30
SPC6D28MT4R7	4.7	100 KHz / 0.25V	0.029	2.5	20
SPC6D28MT6R8	6.8	100 KHz / 0.25V	0.052	2.2	20
SPC6D28NT8R2	8.2	100 KHz / 0.25V	0.057	1.9	30
SPC6D28MT100	10	1.0 KHz / 0.25V	0.065	1.7	20
SPC6D28MT120	12	1.0 KHz / 0.25V	0.07	1.55	20
SPC6D28MT150	15	1.0 KHz / 0.25V	0.084	1.4	20
SPC6D28MT180	18	1.0 KHz / 0.25V	0.095	1.32	20
SPC6D28MT220	22	1.0 KHz / 0.25V	0.128	1.2	20
SPC6D28MT270	27	1.0 KHz / 0.25V	0.142	1.05	20
SPC6D28MT330	33	1.0 KHz / 0.25V	0.165	0.97	20
SPC6D28MT390	39	1.0 KHz / 0.25V	0.21	0.86	20
SPC6D28MT470	47	1.0 KHz / 0.25V	0.238	0.8	20
SPC6D28MT560	56	1.0 KHz / 0.25V	0.277	0.73	20
SPC6D28MT680	68	1.0 KHz / 0.25V	0.304	0.65	20
SPC6D28MT820	82	1.0 KHz / 0.25V	0.39	0.6	20
SPC6D28MT101	100	1.0 KHz / 0.25V	0.535	0.54	20
SPC6D28MT221	220	1.0 KHz / 0.25V	1.35	0.45	20
SPC6D28MT331	330	1.0 KHz / 0.25V	2.0	0.35	20
SPC6D28MT471	470	1.0 KHz / 0.25V	3.0	0.22	20
SPC6D28MT561	550	1.0 KHz / 0.25V	3.5	0.18	20
SPC6D28NT681	680	1.0 KHz / 0.25V	3.95	0.17	30

## SPC6D38

Part No.	Inductance (uH)	Test Freq.	DCR( $\Omega$ ) Max.	Idc(A) Max.	Tolerance ( $\pm\%$ )
SPC6D38NT1R0	1.0	100 KHz / 0.25V	0.017	3.8	30
SPC6D38NT2R2	2.2	100 KHz / 0.25V	0.18	3.7	30
SPC6D38MT3R3	3.3	100 KHz / 0.25V	0.02	3.5	20
SPC6D38NT4R7	4.7	100 KHz / 0.25V	0.023	3.1	30
SPC6D38MT5R6	5.6	100 KHz / 0.25V	0.025	2.7	20
SPC6D38MT6R8	6.8	100 KHz / 0.25V	0.029	2.4	20
SPC6D38MT8R2	8.2	100 KHz / 0.25V	0.035	2.0	20
SPC6D38MT100	10	1.0 KHz / 0.25V	0.038	2.0	20
SPC6D38MT120	12	1.0 KHz / 0.25V	0.053	1.7	20
SPC6D38MT150	15	1.0 KHz / 0.25V	0.057	1.6	20
SPC6D38MT180	18	1.0 KHz / 0.25V	0.092	1.5	20
SPC6D38MT220	22	1.0 KHz / 0.25V	0.096	1.3	20
SPC6D38MT270	27	1.0 KHz / 0.25V	0.109	1.2	20
SPC6D38MT330	33	1.0 KHz / 0.25V	0.124	1.1	20
SPC6D38MT390	39	1.0 KHz / 0.25V	0.138	1.0	20
SPC6D38MT470	47	1.0 KHz / 0.25V	0.155	0.95	20
SPC6D38MT560	56	1.0 KHz / 0.25V	0.202	0.85	20
SPC6D38MT680	68	1.0 KHz / 0.25V	0.234	0.75	20
SPC6D38MT820	82	1.0 KHz / 0.25V	0.324	0.7	20
SPC6D38MT101	100	1.0 KHz / 0.25V	0.358	0.65	20
SPC6D38MT121	120	10 KHz / 0.25V	0.47	0.59	20
SPC6D38MT151	150	1.0 KHz / 0.25V	0.6	0.45	20
SPC6D38MT181	180	100 KHz / 0.25V	0.62	0.4	20
SPC6D38MT221	220	10 KHz / 0.1V	0.89	0.43	20
SPC6D38MT331	330	1.0 KHz / 0.25V	1.25	0.39	20
SPC6D38MT471	470	1.0 KHz / 0.25V	1.95	0.195	20
SPC6D38MT681	680	100 KHz / 0.25V	2.1	0.22	20

### Ordering information

#### SPC - 6D28 - M - T - 1R0

(1) (2) (3) (4) (5)

- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 6D is 6.7mm square, 28 is about 2.8mm height and 38 is about 3.8mm height
- ( 3 ) Tolerance : M=20%, N=30%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

### Characteristics

- IDC  $\Delta L/L(0A) \leq 35\%$
- Operating temperature : -40 to 125°C

### Test equipment

- L : TH2816A, TH2816B
- DCR : GOM-801H

# Packing

