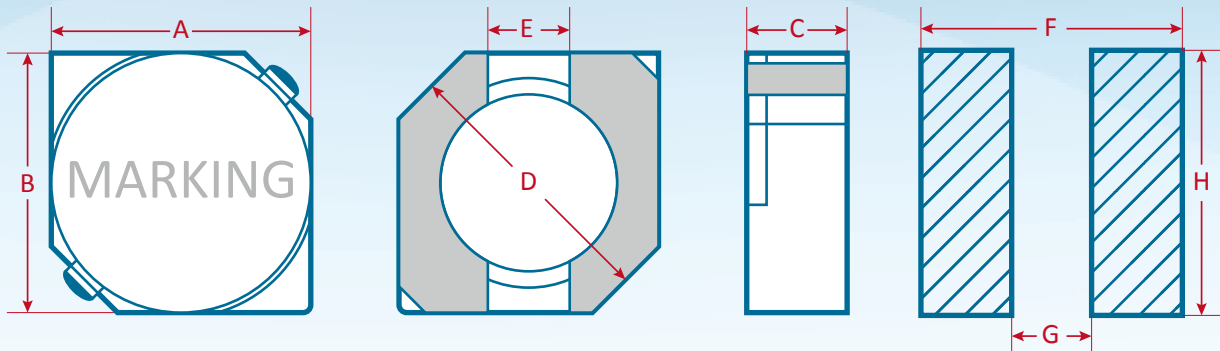


SPC2 Series

SMD Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
SPC5D18	5.7±0.3	5.7±0.3	2.0 Max.	8.2	2.0 Ref.	6.3 Typ.	2.0 Typ.	6.3 Typ.
SPC5D28	5.7±0.3	5.7±0.3	3.0 Max.	8.2	2.0 Ref.	6.3 Typ.	2.0 Typ.	6.3 Typ.

SPC5D18

Part No.	Inductance (uH)	Test Freq.	DCR(Ω) Max.	Idc(A) Max.	Tolerance (±%)
SPC5D18NT2R2	2.2	100 KHz / 0.25V	0.052	2.2	30
SPC5D18MT3R3	3.3	100 KHz / 0.25V	0.055	2.0	20
SPC5D18MT4R7	4.7	100 KHz / 0.25V	0.072	1.77	20
SPC5D18MT6R8	6.8	100 KHz / 0.25V	0.11	1.3	20
SPC5D18MT8R2	8.2	100 KHz / 0.25V	0.114	1.28	20
SPC5D18MT100	10	1.0 KHz / 0.25V	0.124	1.2	20
SPC5D18MT120	12	1.0 KHz / 0.25V	0.153	1.1	20
SPC5D18MT150	15	1.0 KHz / 0.25V	0.196	0.97	20
SPC5D18MT180	18	1.0 KHz / 0.25V	0.21	0.85	20
SPC5D18MT220	22	1.0 KHz / 0.25V	0.29	0.8	20
SPC5D18MT270	27	1.0 KHz / 0.25V	0.33	0.75	20
SPC5D18MT330	33	1.0 KHz / 0.25V	0.385	0.65	20
SPC5D18MT390	39	1.0 KHz / 0.25V	0.52	0.57	20
SPC5D18MT470	47	1.0 KHz / 0.25V	0.595	0.54	20
SPC5D18MT560	56	1.0 KHz / 0.25V	0.665	0.5	20
SPC5D18MT680	68	1.0 KHz / 0.25V	0.84	0.43	20
SPC5D18MT820	82	1.0 KHz / 0.25V	0.978	0.41	20
SPC5D18MT101	100	1.0 KHz / 0.25V	1.2	0.36	20
SPC5D18MT151	150	1.0 KHz / 0.25V	2.0	0.25	20
SPC5D18MT221	220	1.0 KHz / 0.25V	3.0	0.24	20
SPC5D18MT470	470	1.0 KHz / 0.25V	6.56	0.18	20

SPC5D28

Part No.	Inductance (uH)	Test Freq.	DCR(Ω) Max.	Idc(A) Max.	Tolerance ($\pm\%$)
SPC5D28MT1R0	1.0	100 KHz / 0.25V	0.017	2.8	20
SPC5D28NT2R2	2.2	100 KHz / 0.25V	0.018	2.6	30
SPC5D28MT3R3	3.3	100 KHz / 0.25V	0.035	2.4	20
SPC5D28MT4R7	4.7	100 KHz / 0.25V	0.037	2.0	20
SPC5D28MT5R6	5.6	100 KHz / 0.25V	0.04	1.85	20
SPC5D28NT6R8	6.8	100 KHz / 0.25V	0.05	1.82	30
SPC5D28NT8R2	8.2	100 KHz / 0.25V	0.058	1.85	30
SPC5D28MT100	10	1.0 KHz / 0.25V	0.065	1.3	20
SPC5D28MT120	12	1.0 KHz / 0.25V	0.076	1.2	20
SPC5D28MT150	15	1.0 KHz / 0.25V	0.103	1.1	20
SPC5D28MT180	18	1.0 KHz / 0.25V	0.11	1.0	20
SPC5D28MT220	22	1.0 KHz / 0.25V	0.122	0.9	20
SPC5D28MT270	27	1.0 KHz / 0.25V	0.18	0.77	20
SPC5D28MT330	33	1.0 KHz / 0.25V	0.189	0.75	20
SPC5D28MT390	39	10 KHz / 0.1V	0.212	0.7	20
SPC5D28MT470	47	1.0 KHz / 0.25V	0.25	0.62	20
SPC5D28MT560	56	1.0 KHz / 0.25V	0.305	0.58	20
SPC5D28MT680	68	100 KHz / 0.25V	0.355	0.52	20
SPC5D28NT820	82	10 KHz / 0.1V	0.463	0.6	30
SPC5D28NT101	100	1.0 KHz / 0.25V	0.52	0.42	30
SPC5D28MT121	120	1.0 KHz / 0.25V	0.85	0.4	20
SPC5D28MT151	150	1.0 KHz / 0.25V	0.98	0.37	20
SPC5D28MT181	180	1.0 KHz / 0.25V	1.05	0.35	30
SPC5D28MT221	220	1.0 KHz / 0.25V	1.5	0.22	20
SPC5D28MT331	330	1.0 KHz / 0.25V	2.5	0.21	20
SPC5D28MT471	470	1.0 KHz / 0.25V	3.0	0.2	20
SPC5D28MT561	560	1.0 KHz / 0.25V	3.5	0.18	20
SPC5D28MT681	680	10 KHz / 0.1V	4.5	0.13	20

Ordering information

SPC - 5D18 - N - T - 2R2

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

- (1) Type : Surface Mountable Type
- (2) Size : 5D is 5.7mm square, 18 is about 1.8mm height and 28 is about 2.8mm 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 $\Delta L/L(OA) \leq 35\%$
- Operating temperature : -40 to 125°C

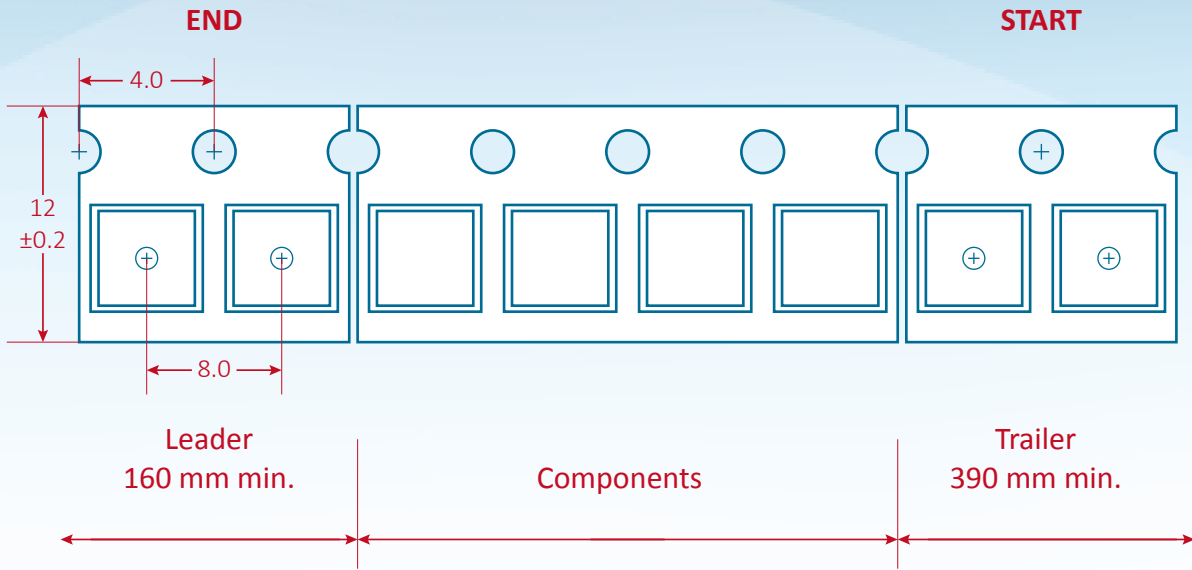
Test equipment

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

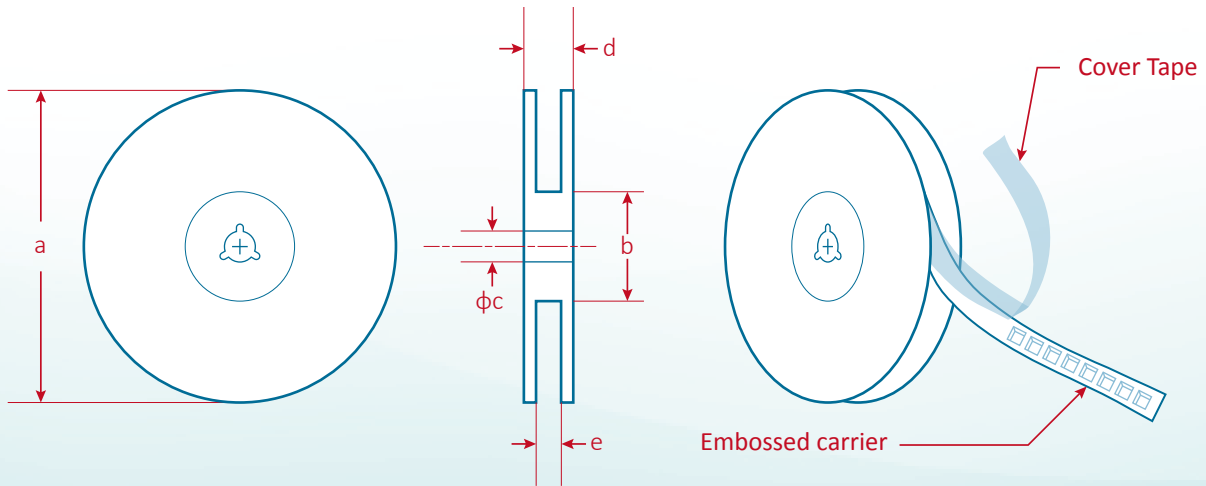


Packing

Dimensions in mm



User direction of feed



Item	a	b	φc	d	e
SPC5D18	330	100±1.0	13±0.2	17.1±2.0	12.5±0.1
SPC5D28	330	100±1.0	13±0.2	17.1±2.0	12.5±0.1
		Reel			Reel
SPC5D18		Q'ty(Pcs) 2,000		SPC5D28	Q'ty(Pcs) 2,000