

SPC2 Series

SMD Power Inductor

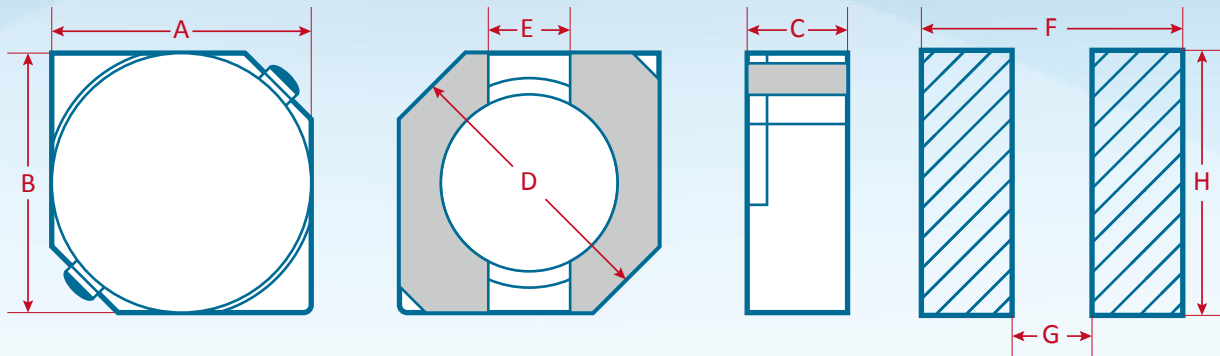
變更紀錄	日期	版本	製作	檢查	審核
1. SPC2 系列 SPEC 發行	2022/7/21	V1	Vincent	Tony	Alan
2. 新增 SPC4D28MT331	2023/5/10	V2	Vincent	Tony	Alan



SPC2 Series

SMD Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
SPC3D18	4.0 Max.	4.0 Max.	1.8 Max.	5.2	1.0 Ref.	4.1 Typ.	1.2 Typ.	4.1 Typ.

SPC3D18

Part No.	Inductance (uH)	Test Freq.	DCR(Ω) Max.	Idc(A) Max.	Tolerance ($\pm\%$)
SPC3D18NT1R0	1.0	100 KHz / 0.1V	0.04	1.6	30
SPC3D18NT2R2	2.2	100 KHz / 0.1V	0.072	1.2	30
SPC3D18NT3R3	3.3	100 KHz / 0.1V	0.085	1.1	30
SPC3D18NT4R7	4.7	100 KHz / 0.1V	0.105	0.9	30
SPC3D18NT6R8	6.8	100 KHz / 0.1V	0.17	0.73	30
SPC3D18MT100	10	100 KHz / 0.1V	0.21	0.55	20
SPC3D18NT120	12	100 KHz / 0.1V	0.275	0.5	30
SPC3D18NT150	15	100 KHz / 0.1V	0.295	0.45	30
SPC3D18NT220	22	100 KHz / 0.1V	0.43	0.4	30
SPC3D18NT270	27	100 KHz / 0.1V	0.557	0.38	30
SPC3D18NT330	33	100 KHz / 0.1V	0.675	0.32	30
SPC3D18NT470	47	100 KHz / 0.1V	0.9	0.27	30
SPC3D18NT560	56	100 KHz / 0.1V	1.33	0.22	30
SPC3D18NT680	68	100 KHz / 0.1V	1.8	0.14	30
SPC3D18NT101	100	100 KHz / 0.1V	2.6	0.16	30
SPC3D18NT221	220	100 KHz / 0.1V	4.77	0.13	30

Ordering information

SPC - 3D18 - N - T - 1R0

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

- (1) Type : Surface Mountable Type
- (2) Size : 3D is 4.0mm square and 18 is about 1.8mm 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

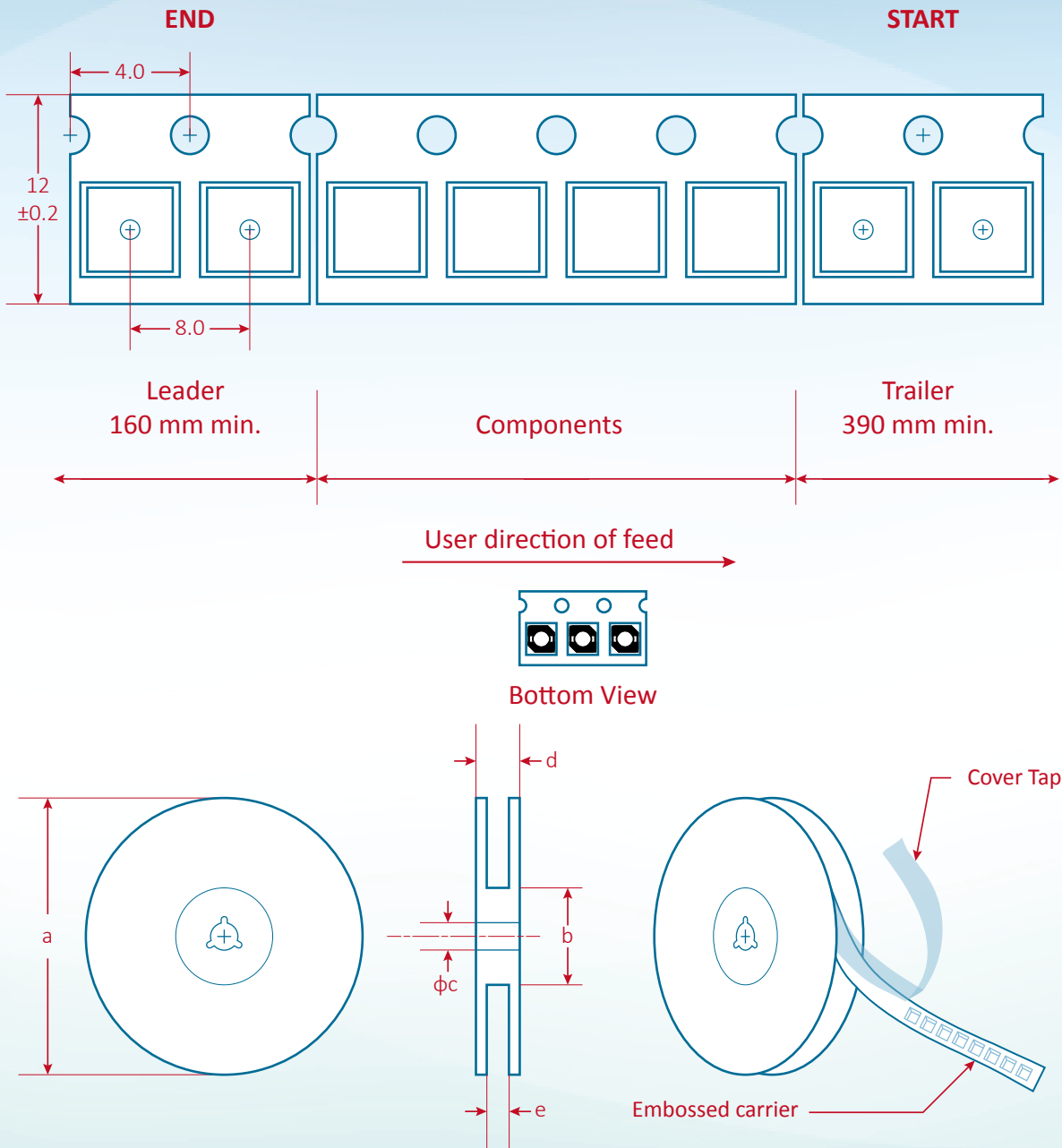
Test equipment

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



Packing

Dimensions in mm

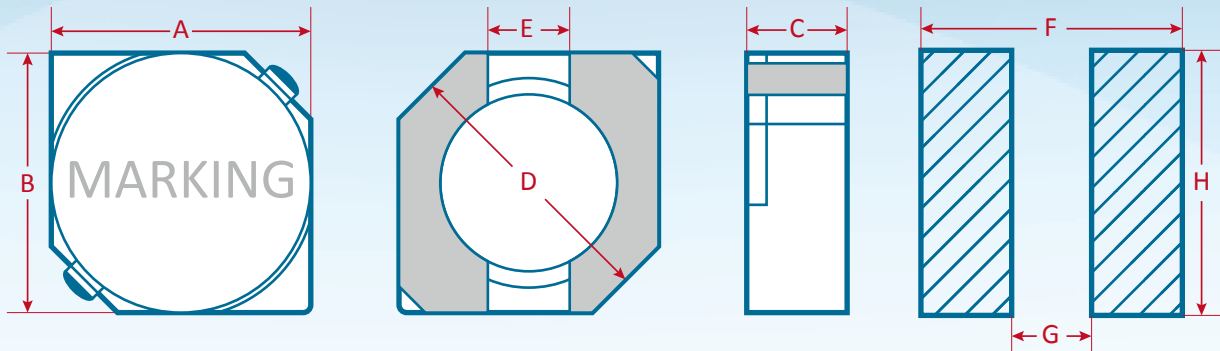


Item	a	b	φc	d	e
SPC3D18	330	100±1.0	13±0.2	17.1±2.0	12.5±0.1
Reel					
Q'ty(Pcs)					
3,500					

SPC2 Series

SMD Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
SPC4D18	4.7±0.3	4.7±0.3	2.0 Max.	6.9	1.4 Ref.	5.0 Typ.	1.5 Typ.	5.3 Typ.
SPC4D28	4.7±0.3	4.7±0.3	3.0 Max.	6.9	1.4 Ref.	5.3 Typ.	1.5 Typ.	5.3 Typ.

SPC4D18

Part No.	Inductance (uH)	Test Freq.	DCR(Ω) Max.	Idc(A) Max.	Tolerance (±%)
SPC4D18NT1R0	1.0	100 KHz / 0.25V	0.045	1.72	30
SPC4D18NT2R2	2.2	100 KHz / 0.25V	0.075	1.32	30
SPC4D18NT3R3	3.3	100 KHz / 0.25V	0.11	1.04	30
SPC4D18MT4R7	4.7	100 KHz / 0.25V	0.162	0.84	20
SPC4D18NT5R6	5.6	100 KHz / 0.1V	0.17	0.8	30
SPC4D18MT6R8	6.8	100 KHz / 0.25V	0.2	0.76	20
SPC4D18NT8R2	8.2	100 KHz / 0.1V	0.195	0.65	30
SPC4D18MT100	10	1.0 KHz / 0.25V	0.26	0.61	20
SPC4D18NT120	12	100 KHz / 0.1V	0.21	0.56	30
SPC4D18NT180	18	100 KHz / 0.1V	0.338	0.48	30
SPC4D18MT220	22	1.0 KHz / 0.25V	0.397	0.41	20
SPC4D18MT270	27	1.0 KHz / 0.25V	0.441	0.35	20
SPC4D18MT330	33	1.0 KHz / 0.25V	0.5	0.3	20
SPC4D18NT390	39	100 KHz / 0.1V	0.709	0.3	30
SPC4D18MT470	47	100 KHz / 0.25V	0.992	0.28	20
SPC4D18NT560	56	100 KHz / 0.1V	1.08	0.26	30
SPC4D18MT680	68	1.0 KHz / 0.25V	1.3	0.24	20
SPC4D18NT820	82	100 KHz / 0.1V	1.56	0.22	30
SPC4D18MT101	100	1.0 KHz / 0.25V	1.73	0.2	20
SPC4D18NT121	120	100 KHz / 0.1V	2.39	0.18	30
SPC4D18NT151	150	100 KHz / 0.1V	2.67	0.15	30
SPC4D18NT181	180	1.0 KHz / 0.25V	4.0	0.14	30

SPC4D28

Part No.	Inductance (uH)	Test Freq.	DCR(Ω) Max.	Idc(A) Max.	Tolerance ($\pm\%$)
SPC4D28NT1R0	1.0	100 KHz / 0.25V	0.02	2.65	30
SPC4D28NT2R2	2.2	100 KHz / 0.25V	0.031	2.04	30
SPC4D28NT3R3	3.3	100 KHz / 0.25V	0.049	1.57	30
SPC4D28NT4R7	4.7	100 KHz / 0.25V	0.072	1.32	30
SPC4D28NT5R6	5.6	100 KHz / 0.25V	0.101	1.17	30
SPC4D28NT6R8	6.8	100 KHz / 0.25V	0.109	1.12	30
SPC4D28NT8R2	8.2	100 KHz / 0.25V	0.118	1.04	30
SPC4D28NT100	10	1.0 KHz / 0.25V	0.128	1.0	30
SPC4D28NT120	12	1.0 KHz / 0.25V	0.132	0.84	30
SPC4D28NT150	15	1.0 KHz / 0.25V	0.149	0.76	30
SPC4D28NT180	18	1.0 KHz / 0.25V	0.166	0.72	30
SPC4D28NT220	22	1.0 KHz / 0.25V	0.235	0.7	30
SPC4D28NT270	27	1.0 KHz / 0.25V	0.261	0.58	30
SPC4D28NT330	33	1.0 KHz / 0.25V	0.331	0.56	30
SPC4D28NT390	39	1.0 KHz / 0.25V	0.384	0.5	30
SPC4D28NT470	47	1.0 KHz / 0.25V	0.587	0.48	30
SPC4D28NT560	56	1.0 KHz / 0.25V	0.625	0.41	30
SPC4D28NT680	68	1.0 KHz / 0.25V	0.699	0.35	30
SPC4D28NT820	82	1.0 KHz / 0.25V	0.915	0.32	30
SPC4D28NT101	100	1.0 KHz / 0.25V	1.02	0.29	30
SPC4D28NT121	120	1.0 KHz / 0.25V	1.27	0.27	30
SPC4D28NT151	150	1.0 KHz / 0.25V	1.35	0.24	30
SPC4D28NT181	180	1.0 KHz / 0.25V	1.54	0.22	30
SPC4D28NT221	220	1.0 KHz / 0.25V	1.96	0.21	30
SPC4D28MT331	330	1.0 KHz / 0.25V	2.1	0.2	20
SPC4D28MT391	390	1.0 KHz / 0.25V	2.2	0.14	20

Ordering information

SPC - 4D18 - N - T - 1R0

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

- (1) Type : Surface Mountable Type
- (2) Size : 4D is 4.7mm 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...

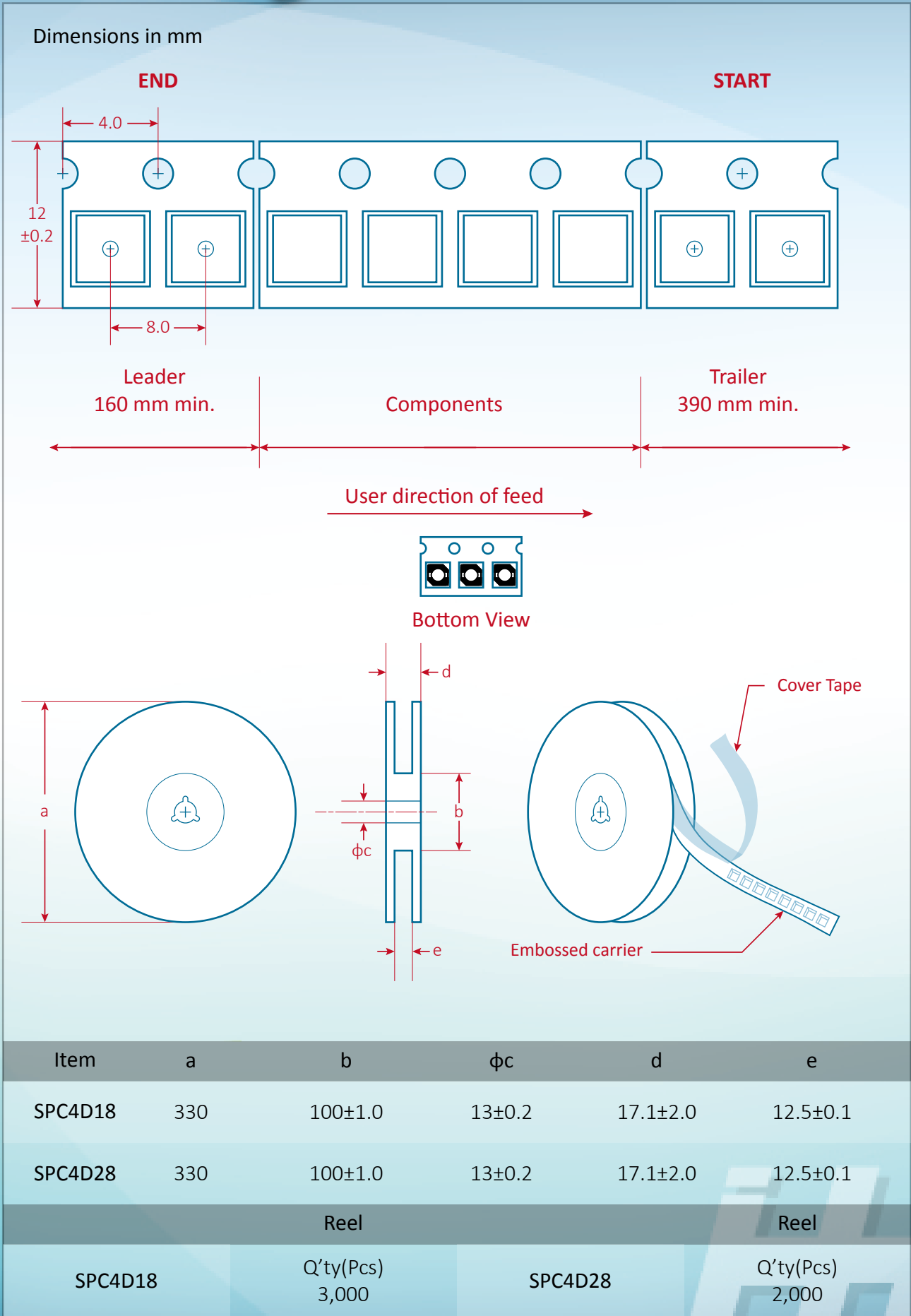
Characteristics

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

Test equipment

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

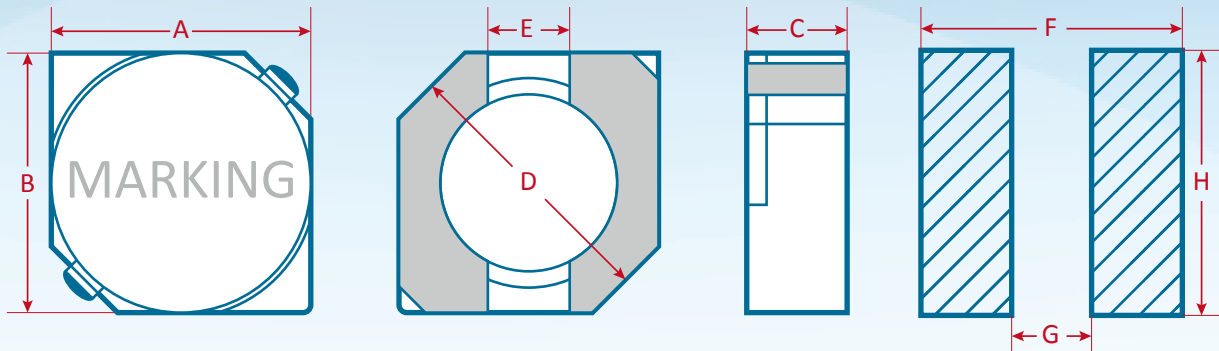
Packing



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

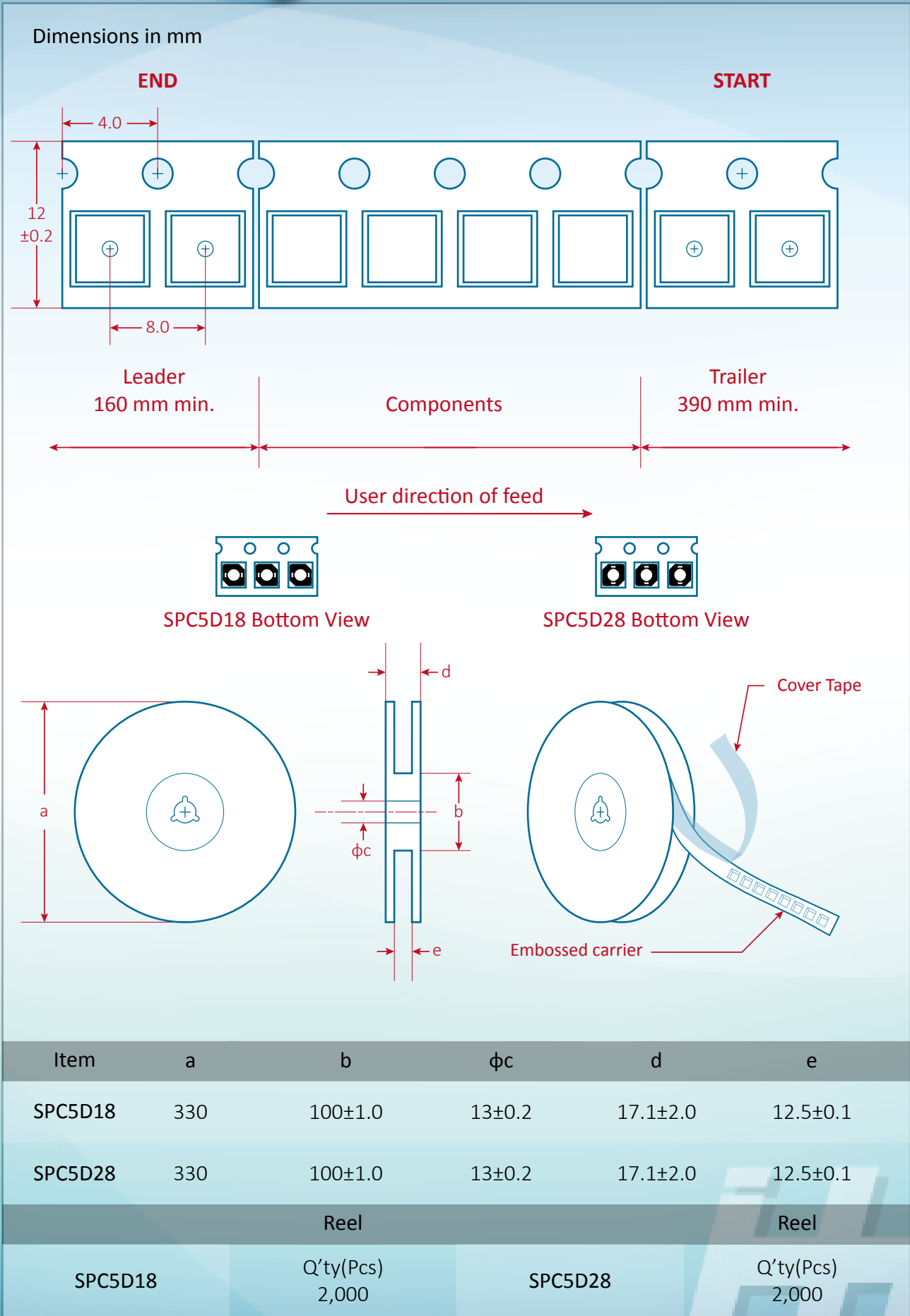
- IDC $\Delta L/L(OA) \leq 35\%$
- Operating temperature : -40 to 125°C

Test equipment

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



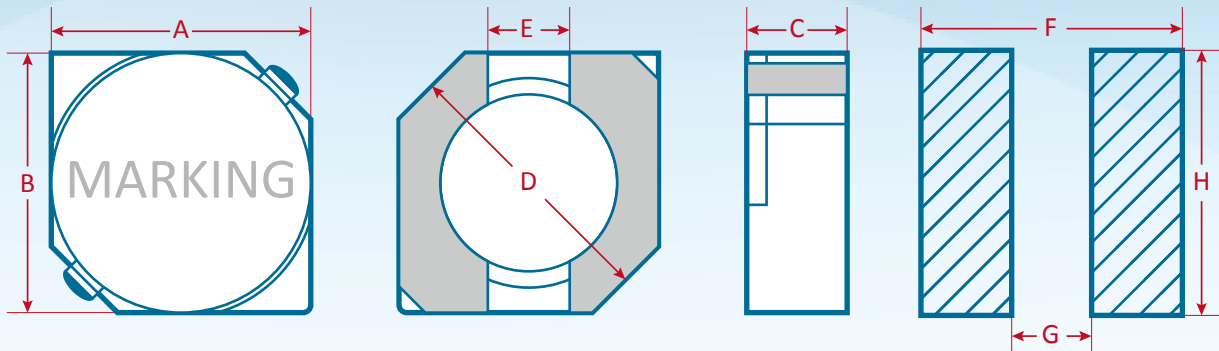
Packing



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(Ω) 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

