

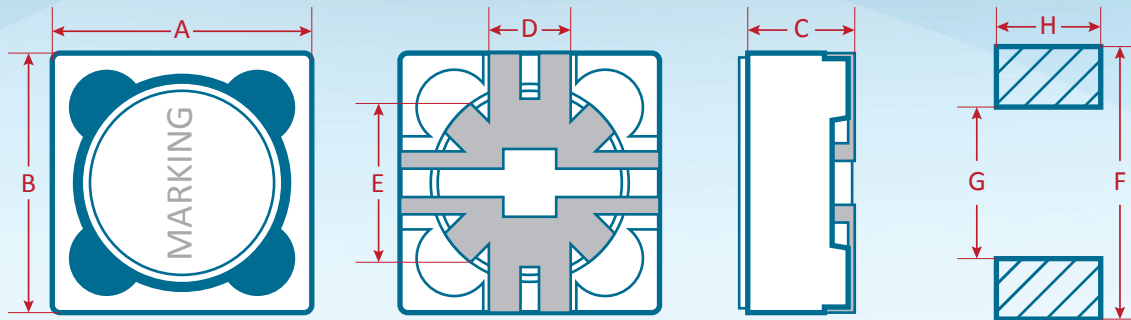
SMD Power Inductor

[illegible]

SPC1 Series

SMD Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
SPC124	12±0.3	12±0.3	4.5 Max.	5.0±0.2	7.6±0.2	12.8 Typ.	7.0 Typ.	5.4 Typ.
SPC125	12±0.3	12±0.3	6.0 Max.	5.0±0.2	7.6±0.2	12.8 Typ.	7.0 Typ.	5.4 Typ.
SPC127	12±0.3	12±0.3	8.0 Max.	5.0±0.2	7.6±0.2	12.8 Typ.	7.0 Typ.	5.4 Typ.
SPC129	12±0.3	12±0.3	10 Max.	5.0±0.2	7.6±0.2	12.8 Typ.	7.0 Typ.	5.4 Typ.

SPC124

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(Ω) Max.	Idc(A) Max.	Tolerance (±%)
SPC124MT2R2	2.2	100 KHz	0.013	8.00	20
SPC124MT3R3	3.3	100 KHz	0.015	6.50	20
SPC124MT4R7	4.7	100 KHz	0.018	5.70	20
SPC124MT5R6	5.6	100 KHz	0.022	5.00	20
SPC124MT6R8	6.8	100 KHz	0.023	4.90	20
SPC124MT8R2	8.2	100 KHz	0.026	4.60	20
SPC124MT100	10	1.0 KHz	0.028	4.50	20
SPC124MT120	12	1.0 KHz	0.038	4.00	20
SPC124MT150	15	1.0 KHz	0.050	3.20	20
SPC124MT180	18	1.0 KHz	0.057	3.10	20
SPC124MT220	22	1.0 KHz	0.066	2.90	20
SPC124MT270	27	1.0 KHz	0.080	2.80	20
SPC124MT330	33	1.0 KHz	0.097	2.70	20
SPC124MT390	39	1.0 KHz	0.132	2.10	20
SPC124MT470	47	1.0 KHz	0.160	1.90	20
SPC124MT560	56	100 KHz	0.190	1.80	20
SPC124MT680	68	1.0 KHz	0.220	1.50	20
SPC124MT820	82	1.0 KHz	0.260	1.30	20
SPC124MT101	100	1.0 KHz	0.308	1.20	20
SPC124MT121	120	1.0 KHz	0.380	1.10	20
SPC124MT151	150	1.0 KHz	0.530	0.95	20

Part No.	Inductance (μ H)	Test Freq. (0.25V)	DCR(Ω) Max.	Idc(A) Max.	Tolerance ($\pm$ %)
SPC124MT181	180	1.0 KHz	0.620	0.85	20
SPC124MT221	220	1.0 KHz	0.700	0.80	20
SPC124MT271	270	1.0 KHz	0.870	0.60	20
SPC124MT331	330	1.0 KHz	0.990	0.50	20
SPC124MT471	470	100 KHz	1.300	0.70	20
SPC124MT561	560	100 KHz	1.623	0.53	20

SPC125

Part No.	Inductance (μ H)	Test Freq. (0.25V)	DCR(Ω) Max.	Idc(A) Max.	Tolerance ($\pm$ %)
SPC125MT2R2	2.2	100 KHz	0.010	7.00	20
SPC125MT3R3	3.3	100 KHz	0.014	6.75	20
SPC125MT4R7	4.7	100 KHz	0.018	6.20	20
SPC125MT6R8	6.8	100 KHz	0.023	5.90	20
SPC125MT8R2	8.2	100 KHz	0.025	5.00	20
SPC125MT100	10	1.0 KHz	0.025	4.00	20
SPC125MT120	12	1.0 KHz	0.027	3.50	20
SPC125MT150	15	1.0 KHz	0.030	3.30	20
SPC125MT180	18	1.0 KHz	0.034	3.00	20
SPC125MT220	22	1.0 KHz	0.036	3.70	20
SPC125MT270	27	1.0 KHz	0.051	2.30	20
SPC125MT330	33	1.0 KHz	0.057	2.10	20
SPC125MT390	39	1.0 KHz	0.068	2.00	20
SPC125MT470	47	1.0 KHz	0.075	1.80	20
SPC125MT560	56	1.0 KHz	0.110	1.70	20
SPC125MT680	68	1.0 KHz	0.120	1.50	20
SPC125MT820	82	1.0 KHz	0.140	1.40	20
SPC125MT101	100	1.0 KHz	0.160	1.30	20
SPC125MT121	120	1.0 KHz	0.170	1.10	20
SPC125MT151	150	1.0 KHz	0.230	1.00	20
SPC125MT181	180	1.0 KHz	0.290	0.90	20
SPC125MT221	220	1.0 KHz	0.400	0.80	20
SPC125MT270	270	1.0 KHz	0.460	0.75	20
SPC125MT301	300	1.0 KHz	0.490	0.70	20
SPC125MT331	330	1.0 KHz	0.510	0.68	20
SPC125MT391	390	1.0 KHz	0.690	0.65	20
SPC125MT471	470	1.0 KHz	0.770	0.58	20
SPC125MT561	560	1.0 KHz	0.860	0.54	20
SPC125MT681	680	1.0 KHz	1.200	0.48	20
SPC125MT821	820	1.0 KHz	1.340	0.43	20

SPC127

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(Ω) Max.	Idc(A) Max.	Tolerance (±%)
SPC127MT1R0	1.0	100 KHz	0.007	10.00	20
SPC127MT2R2	2.2	100 KHz	0.012	8.50	20
SPC127MT3R3	3.3	100 KHz	0.013	7.80	20
SPC127MT4R7	4.7	100 KHz	0.015	6.80	20
SPC127MT5R6	5.6	100 KHz	0.016	6.70	20
SPC127MT6R8	6.8	100 KHz	0.014	6.40	20
SPC127MT8R2	8.2	100 KHz	0.016	6.32	20
SPC127MT100	10	1.0 KHz	0.022	5.40	20
SPC127MT120	12	1.0 KHz	0.024	4.90	20
SPC127MT150	15	1.0 KHz	0.027	4.50	20
SPC127MT180	18	1.0 KHz	0.040	3.90	20
SPC127MT220	22	1.0 KHz	0.043	3.60	20
SPC127MT270	27	1.0 KHz	0.046	3.40	20
SPC127MT330	33	1.0 KHz	0.065	3.00	20
SPC127MT390	39	1.0 KHz	0.073	2.75	20
SPC127MT470	47	1.0 KHz	0.100	2.50	20
SPC127MT560	56	1.0 KHz	0.110	2.35	20
SPC127MT680	68	1.0 KHz	0.140	2.10	20
SPC127MT820	82	1.0 KHz	0.160	1.95	20
SPC127MT101	100	1.0 KHz	0.220	1.70	20
SPC127MT121	120	1.0 KHz	0.250	1.60	20
SPC127MT151	150	1.0 KHz	0.280	1.42	20
SPC127MT181	180	1.0 KHz	0.350	1.30	20
SPC127MT221	220	1.0 KHz	0.390	1.16	20
SPC127MT271	270	1.0 KHz	0.560	1.06	20
SPC127MT331	330	100 KHz	0.640	0.95	20
SPC127MT391	390	1.0 KHz	0.700	0.88	20
SPC127MT471	470	1.0 KHz	0.980	0.79	20
SPC127MT561	560	1.0 KHz	1.070	0.73	20
SPC127MT681	680	1.0 KHz	1.460	0.67	20
SPC127MT821	820	1.0 KHz	1.640	0.60	20

SPC129

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(Ω) Max.	Idc(A) Max.	Tolerance (±%)
SPC129MT1R0	1.0	100 KHz	0.007	17.00	20
SPC129NT3R3	3.3	100 KHz	0.009	14.00	30
SPC129NT6R8	6.8	100 KHz	0.013	10.00	30
SPC129NT8R2	8.2	100 KHz	0.015	8.20	30
SPC129MT100	10	1.0 KHz	0.018	7.50	20
SPC129MT120	12	1.0 KHz	0.019	7.00	20
SPC129MT150	15	1.0 KHz	0.024	6.00	20
SPC129MT180	18	1.0 KHz	0.031	5.50	20
SPC129MT220	22	1.0 KHz	0.039	5.00	20
SPC129MT270	27	1.0 KHz	0.045	4.50	20
SPC129MT330	33	1.0 KHz	0.050	4.00	20
SPC129MT390	39	1.0 KHz	0.059	3.80	20
SPC129MT470	47	1.0 KHz	0.069	3.50	20

Part No.	Inductance (uH)	Test Freq. (0.25V)	DCR(Ω) Max.	Idc(A) Max.	Tolerance ($\pm\%$)
SPC129MT560	56	1.0 KHz	0.079	3.20	20
SPC129MT680	68	100 KHz	0.088	3.00	20
SPC129MT820	82	1.0 KHz	0.110	2.60	20
SPC129MT101	100	1.0 KHz	0.140	2.20	20
SPC129MT121	120	1.0 KHz	0.160	2.00	20
SPC129MT151	150	1.0 KHz	0.200	1.80	20
SPC129MT181	180	1.0 KHz	0.270	1.60	20
SPC129MT221	220	1.0 KHz	0.300	1.50	20
SPC129MT271	270	1.0 KHz	0.400	1.30	20
SPC129MT331	330	1.0 KHz	0.450	1.20	20
SPC129MT391	390	1.0 KHz	0.550	1.10	20
SPC129MT471	470	1.0 KHz	0.600	1.00	20
SPC129MT561	560	1.0 KHz	0.700	0.90	20
SPC129MT681	680	1.0 KHz	0.840	0.82	20
SPC129MT821	820	1.0 KHz	1.060	0.80	20

Ordering information

SPC - 124 - M - T - 2R2

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

- (1) Type : Surface Mountable Type
- (2) Size : 124(1204) is size
- (3) Tolerance : M=20%, N=30%
- (4) Packaging style : Taping Reel
- (5) Inductance : 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

Characteristics

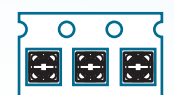
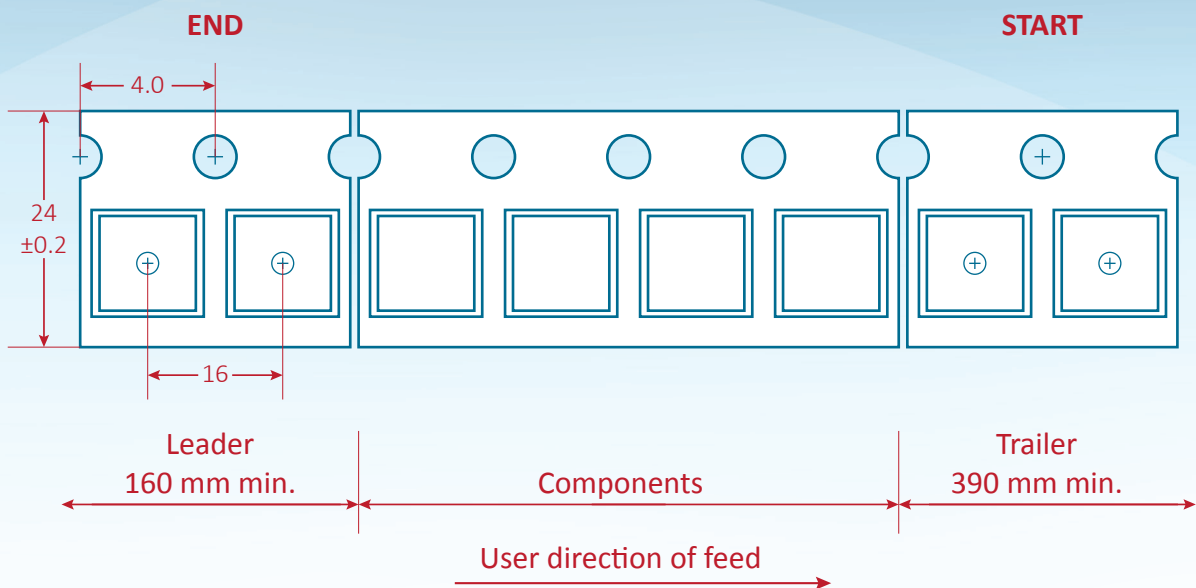
- IDC $\Delta L/L(0A) \leq 35\%$
- Operating temperature : -40 to 105°C

Test equipment

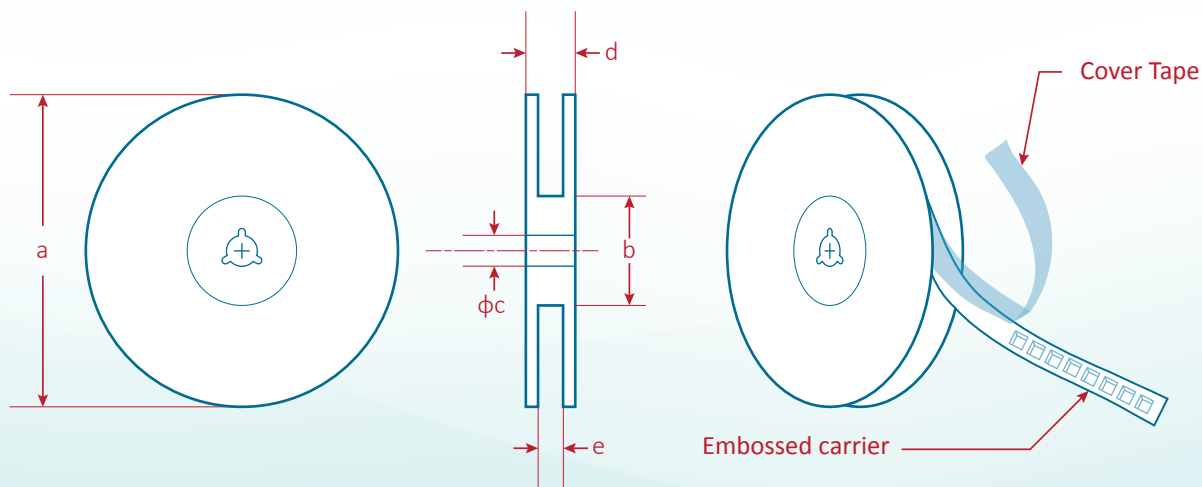
- L : TH2816A, TH2816B
- DCR : GOM-801H

Packing

Dimensions in mm



Bottom View



Item	a	b	φc	d	e
SPC124	330	100±1.0	13±0.2	29.1±2.0	24.5±0.1
SPC125	330	100±1.0	13±0.2	29.1±2.0	24.5±0.1
SPC127	330	100±1.0	13±0.2	29.1±2.0	24.5±0.1
SPC129	330	100±1.0	13±0.2	29.1±2.0	24.5±0.1
Reel		Reel		Reel	
SPC124	Q'ty(Pcs) 500	SPC125	Q'ty(Pcs) 500	SPC127	Q'ty(Pcs) 500
		SPC129	Q'ty(Pcs) 300		