

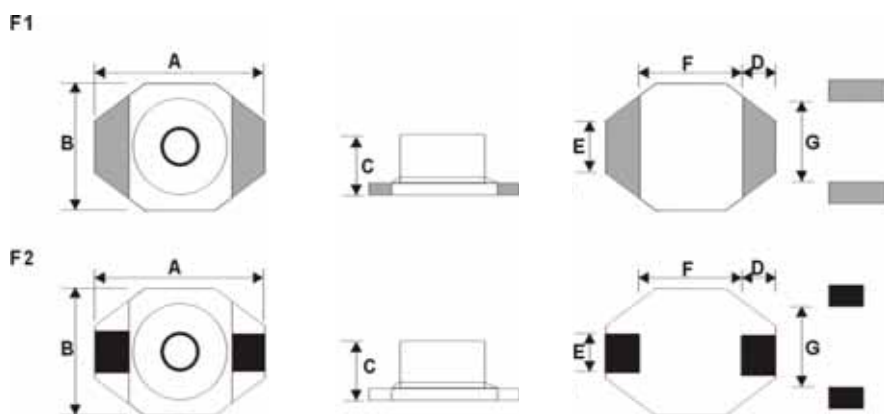
PSC SERIES

Features



- Magnetically shielded & small size.
- Good cost-effective.
- For high current & very low DCR.
- Have a swinging inductance vs current characteristic.
- Flat bottom for reliable surface mounting.
- Reflow soldering & hand soldering are available.
- Good solder fillets and easy inspection.
- Good temperature character prevent damage during solder reflow.
- Customer designed available.

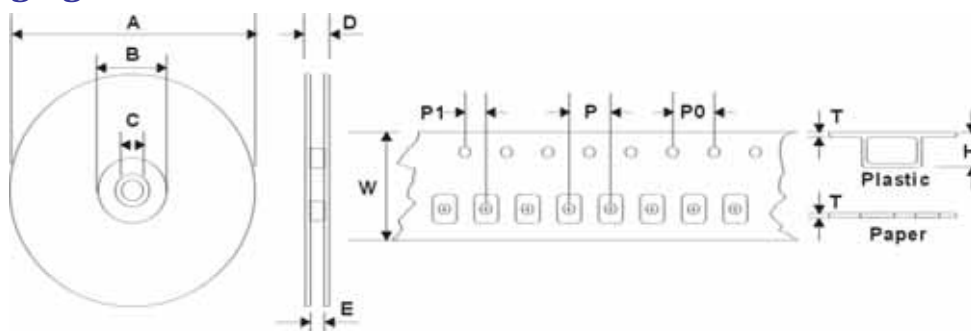
Dimensions



DIM:mm

Type	Fig	A(max)	B(max)	C(max)	D	E	F	G
PSC0603	F1	6.60	4.45	2.92	1.02	1.27	4.32	4.06
PSC1305	F2	12.95	9.40	5.08	2.54	2.54	7.62	7.37

Packaging



DIM:mm

Type	A	B	C	D	E	W	P	P0	P1	H	T	QTY
PSC0603	330	100	13	22.4	16.4	16	8	4	2	3.2	0.35	2000
PSC1305	330	100	13	30.4	24.4	24	12	4	2	5.4	0.40	1000

PSC 0603 TYPE

Part Number	Specifications			Operating Parameters			
	Inductance @100MHz (uH±20%)	DCR Ω(max)	SRF Typ(MHz)	Inductance Rating(uH)	Current Rating (A)	Energy Storage (Joules)	Max Switching Freq.
1R0	1.0	0.045	180	0.6	2.0	1.8	1MHz
1R5	1.5	0.050	120	0.8	1.9	1.8	1MHz
2R2	2.2	0.060	100	0.9	1.5	1.8	1MHz
3R3	3.3	0.070	70	1.5	1.2	1.4	1MHz
4R7	4.7	0.080	60	2	1.2	1.6	1MHz
6R8	6.8	0.085	50	3	1.0	1.9	1MHz
100	10	0.095	45	5	0.7	1.2	1MHz
150	15	0.135	35	6	0.6	1.1	1MHz
220	22	0.160	25	10	0.5	1.2	1MHz
330	33	0.275	20	12	0.45	1.5	1MHz
470	47	0.030	17	20	0.34	1.3	1MHz
680	68	0.575	14	30	0.29	1.4	1MHz
101	100	1.10	12	40	0.24	1.5	1MHz
151	150	1.40	7	60	0.20	1.4	500KHz
221	220	2.25	7	90	0.17	1.6	500KHz
331	330	2.90	6	100	0.16	1.4	500KHz
471	470	3.60	4	150	0.14	1.5	500KHz
681	680	4.55	3.5	200	0.12	1.4	500KHz
102	1000	8.10	2.5	400	0.08	1.4	500KHz

Average maximum allowable current. TST Series inductors are designed for current spikes as high as 2X the current rating.

Operating temperature range -40 to +85 .

Electrical specifications at 25 .

PSC 1305 TYPE

Part Number	Specifications			Operating Parameters			
	Inductance @100MHz (uH±20%)	DCR Ω(max)	SRF Typ(MHz)	Inductance Rating(uH)	Current Rating (A)	MAX Energy Storage (Joules)	Max Switching Freq.
1R0	1.0	0.025	60	0.5	5	9	1MHz
1R5	1.5	0.030	55	0.7	5	12	1MHz
2R2	2.2	0.035	55	1.0	5	15	1MHz
3R3	3.3	0.040	50	1.5	5	16	1MHz
4R7	4.7	0.045	45	2	3	10	1MHz
6R8	6.8	0.050	40	4	2.5	14	1MHz
100	10	0.055	35	5	2.0	11	1MHz
150	15	0.060	25	6	1.8	12	1MHz
220	22	0.084	22	10	1.5	11	1MHz
330	33	0.090	18	12	1.3	13	1MHz
470	47	0.11	16	27	1.0	13	1MHz
680	68	0.15	12	40	0.9	17	1MHz
101	100	0.29	9	50	0.8	15	1MHz
151	150	0.36	8	80	0.6	15	500MHz
221	220	0.39	6	90	0.5	10	500MHz
331	330	0.73	5	150	0.4	13	500MHz
471	470	0.88	4	200	0.35	13	500MHz
681	680	1.15	3	300	0.3	13	500MHz
102	1000	1.45	2.5	420	0.25	13	500MHz