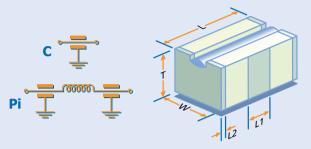
Surface Mount C and Pi Filters

The SBSG range has a 5A current rating for the Pi type, and 10A rating for the C type. Suitable for pick-and-place, these miniature surface mount filters offer assembly savings compared with conventional panel mounted filters. The combination of high current, high capacitance and high voltage makes them suitable for a wide range of applications including telecoms, mil/aerospace and industrial.



Specifications

	mm	(inches)
L	5.25 ± 0.4	(0.207 ± 0.015)
W	3.20 ± 0.2	(0.126 ± 0.008)
T	2.50 ± 0.15	(0.098 ± 0.006)
L1	1.50 ± 0.4	(0.059 ± 0.015)
L2	0.30 ± 0.25	(0.012 ± 0.010)

Electrical Configuration Capacitance Measurement Current Rating

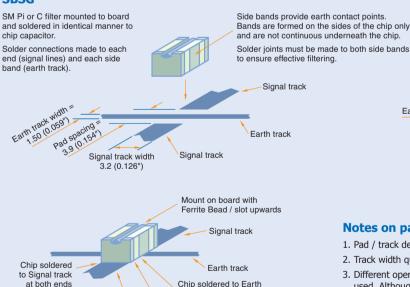
Temperature Rating DC Resistance Ferrite Inductance, typical Weight

C & Pi Filters At 1000hr point Pi Section 5 amps dc C Section 10 amps dc -55°C to 125°C 0.005 Ohms Max. 0.5μH (Pi Section only) 0.2g typical (0.007oz)

Type No.	Capacitance	Dielectric	Rated	DWV	Typical Insertion Loss (dB) 50 ohm System No Load									
(* = Preferred Value)	(M = +/-20%)	Code	Voltage	(Vd.c.)	C Section F							Pi Section		
			(Vd.c.)		0.1MHz	1MHz	10MHz	100MHz	1GHz	0.1MHz	1MHz	10MHz	100MHz	z 1GHz
* SBSG#1 5000102MX#2	1.0nF	X7R	500	750	0	0	4	23	41	0	0	5	33	60+
SBSG#1 5000152MX#2	1.5nF	X7R	500	750	0	0	7	26	45	0	0	9	40	60+
* SBSG#1 5000222MX#2	2.2nF	X7R	500	750	0	0	10	30	50	0	0	11	47	60+
SBSG#1 5000332MX#2	3.3nF	X7R	500	750	0	0	13	33	52	0	0	14	54	60+
* SBSG#1 5000472MX#2	4.7nF	X7R	500	750	0	1	16	36	55	0	1	19	57	60+
SBSG#1 5000682MX#2	6.8nF	X7R	500	750	0	2	19	39	57	0	2	24	60+	60+
* SBSG#1 5000103MX#2	10nF	X7R	500	750	0	4	22	41	60+	0	5	29	60+	60+
* SBSG#1 5000153MX#2	15nF	X7R	500	750	0	7	25	44	60+	0	7	36	60+	60+
* SBSG#1 5000223MX#2	22nF	X7R	500	750	0	10	29	46	60+	0	11	42	60+	60+
SBSG#1 5000333MX#2	33nF	X7R	500	750	0	13	33	48	60+	0	14	51	60+	60+
*SBSG#1 5000473MX#2	47nF	X7R	500	750	1	16	35	50	60+	1	16	57	60+	60+
SBSG#1 2000683MX#2	68nF	X7R	200	500	2	19	39	54	60+	3	19	60+	60+	60+
*SBSG#1 1000104MX#2	100nF	X7R	100	250	4	22	41	57	60+	5	21	60+	60+	60+
* SBSG#1 1000154MX#2	150nF	X7R	100	250	7	25	45	60+	60+	8	23	60+	60+	60+
* SBSG#1 0500224MX#2	220nF	X7R	50	125	10	29	49	60+	60+	11	27	60+	60+	60+

Note #1 For C Filter insert "C", for Pi Filter insert "P". Note #2 For taping on 7" reel insert "T", on 13" reel insert "R", if supplied in bulk insert "B". Insertion loss figures quoted are for filters mounted within a partition. It should be noted that some degradation will occur at higher frequencies for filters which are not fully shielded.

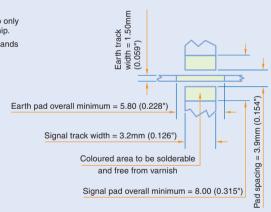
SBSG



Chip Filter

Signal track

PAD DIMENSIONS - C & Pi Filter



Notes on pad design

- 1. Pad / track design assumes 2oz copper track material.
- 2. Track width quoted allows for operation at max. rated current at 125°C.
- 3. Different operating conditions may allow alternative track designs to be used. Although any pad must be able to support continuous opertating current at max. operating temperature.

