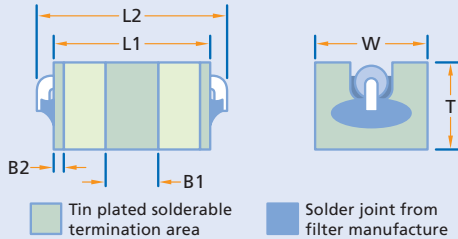


Surface Mount EMI Filters

Surface Mount C and Pi Filters

SBSG

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.

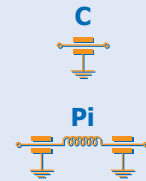


Specifications

	mm	(inches)
L1	4.55 ± 0.25	(0.179 ± 0.010)
L2	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)
B1	1.50 ± 0.4	(0.059 ± 0.015)
B2	0.30 ± 0.25	(0.012 ± 0.010)

Electrical Configuration
Capacitance Measurement
Current Rating

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)



Temperature Rating
DC Resistance
Ferrite Inductance, typical
Weight

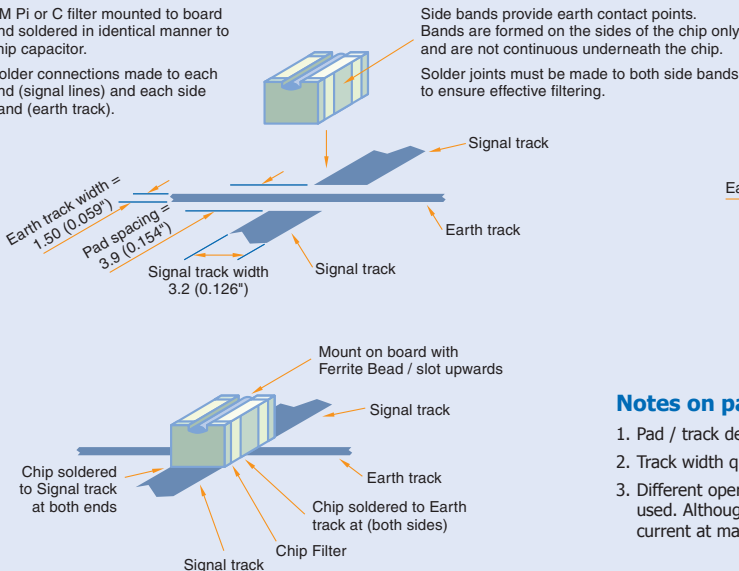
Type No. (* = Preferred Value)	Capacitance (M = +/-20%)	Dielectric Code	Rated Voltage	DWV (Vd.c.)	Typical Insertion Loss (dB) 50 ohm System No Load									
					C Section					Pi Section				
					0.1MHz	1MHz	10MHz	100MHz	1GHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
* SBSG#1 5000102MX#2	1.0nF	X7R	500	750	0	0	4	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.

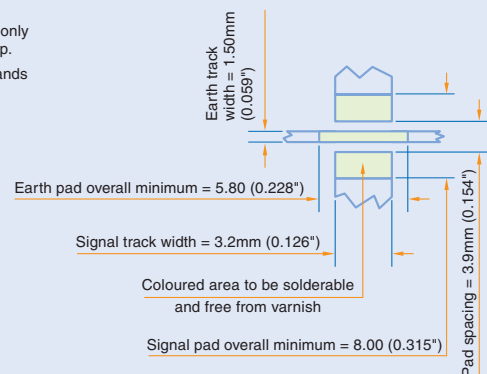
SBSG

SM Pi or C filter mounted to board and soldered in identical manner to chip capacitor.

Solder connections made to each end (signal lines) and each side band (earth 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 operating current at max. operating temperature.

www.syfer.com

FILTSMSBSG.ver2