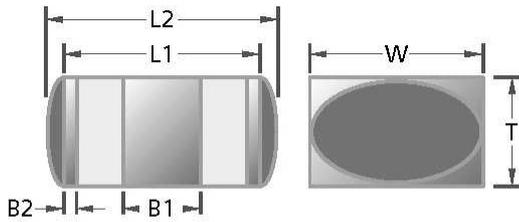


**Circuit Configuration**



**Dimensions mm**

L1	5.7±0.4 (0.224"±0.015")
L2	6.6±0.4 (0.260"±0.015")
W	5.0±0.4 (0.197"±0.015")
T	3.18±0.2 (0.125"±0.008")
B1	2.25±0.4 (0.088"±0.015")
B2	0.30±0.25 (0.012"±0.010")



- Tin plated solderable termination area
- Solder joint from filter manufacture

**Electrical Details**

Electrical Configuration  
Capacitance Measurement  
Current Rating  
Insulation Resistance (IR)  
Temperature Rating  
Ferrite Inductance (Typical)

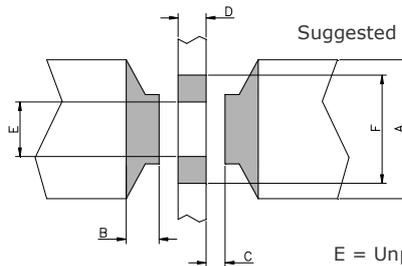
C Filter  
@ 1000hr Point  
20A  
10GΩ or 1000ΩF  
-55°C to +125°C  
N/A ('C' Section)

**Mechanical Details**

Terminals & Finish - End  
Terminals & Finish - Side  
Reflow Temperature  
Construction

SnCu solder over Sn Plate  
Sn Plated  
220°C max.  
Ceramic Multi Layer Chip Capacitor  
Copper Alloy Through Conductor  
Ferrite Bead Inductor Inside  
Soldered End Connections  
0.65g (0.023oz)

Weight (Typical)



Suggested Mounting Pad Details

A	10.00 (0.394")
B	2.35 (0.093")
C	1.35 (0.053")
D	2.00 (0.079")
E	3.95 (0.156")
F	7.80 (0.307")

E = Unprinted solder area between ground pads

It is recommended that designers independently confirm pad dimensions are acceptable, particularly with respect to higher working voltages

Product Code	Packing	Capacitance (±20%)	Dielectric	Rated Voltage (dc)	DWV (dc)	Approximate Resonant Frequency (MHz)	Typical No-Load Insertion Loss (dB)*				
							0.1MHz	1MHz	10MHz	100MHz	1GHz
SBSMC5000102MX	B = Bulk Packed T = Tape-and-Reel (178mm / 7" reels) R = Tape-and-Reel (330mm / 13" reels)	1.0nF	X7R	500	750	270	0	0	5	24	21
SBSMC5000152MX		1.5nF	X7R	500	750	265	0	0	7	25	21
SBSMC5000222MX		2.2nF	X7R	500	750	235	0	0	11	31	21
SBSMC5000332MX		3.3nF	X7R	500	750	185	0	1	15	35	21
SBSMC5000472MX		4.7nF	X7R	500	750	154	0	2	17	40	21
SBSMC5000682MX		6.8nF	X7R	500	750	125	0	4	21	44	21
SBSMC5000103MX		10nF	X7R	500	750	100	0	5	24	50	21
SBSMC5000153MX		15nF	X7R	500	750	80	0	7	27	43	21
SBSMC5000223MX		22nF	X7R	500	750	65	0	11	31	43	21
SBSMC5000333MX		33nF	X7R	500	750	54	1	15	34	43	21
SBSMC5000473MX		47nF	X7R	500	750	46	2	17	37	43	21
SBSMC5000683MX		68nF	X7R	500	750	39	3	21	41	43	21
SBSMC2000104MX		100nF	X7R	200	500	33	5	24	44	43	21
SBSMC2000154MX		150nF	X7R	200	500	26	7	26	47	43	21
SBSMC1000224MX		220nF	X7R	100	250	21	11	31	52	43	21
SBSMC1000334MX		330nF	X7R	100	250	20	14	33	54	43	21
SBSMC0500474MX		470nF	X7R	50	125	19	17	36	54	43	21

\* - Insertion Loss performance quoted is measured on an open board mounted on a brass backplane in a 50Ω system. Performance curves can be supplied on request. Performance in circuit is liable to be different and is affected by board material, track layout, grounding efficiency and circuit impedances. Shielding can be used to improve high frequency performance.

**Ordering Information**

Type	Case Style	Size	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Packing
<b>SB</b>	<b>S</b>	<b>M</b>	<b>C</b>	<b>100</b>	<b>0334</b>	<b>M</b>	<b>X</b>	<b>B</b>
Syfer Board Filter	Surface Mount	Size Code M (nominally 2220)	C = C Filter	050 = 50V 100 = 100V 200 = 200V 500 = 500V	First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is the number of zeros following. Examples: 0472 = 4700pF 0683 = 68000pF	M = ±20%	X = X7R	B = Bulk T = Taped (7") R = Taped (13")

Note: The addition of a 4-digit numerical suffix code can be used to denote changes to the standard part.

Options include for example: change of finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.

