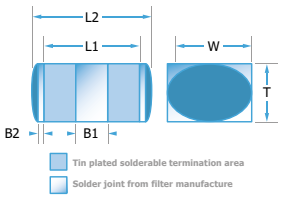
THE DATASHEET OF

SBSMC0500474MXT

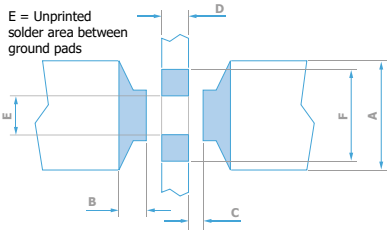
SBSMC

Dimensions

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″)



Suggested mounting pad details

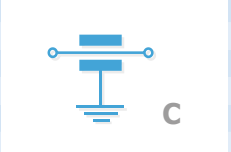


A	10.00 (0.394″)
B	2.35 (0.093″)
C	1.35 (0.053″)
D	2.00 (0.079″)
E	3.95 (0.156″)
F	7.80 (0.307″)

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

Electrical Details

Electrical Configuration	C Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	20A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55ºC to +125ºC
Ferrite Inductance (Typical)	N/A ('C' Section)



Mechanical Details

Terminals & Finish - End	SnCu solder over Sn Plate
Terminals & Finish - Side	Sn Plated
Reflow Temperature	220ºC max.
Construction	Ceramic Multi Layer Chip Capacitor Copper Alloy Through Conductor Soldered End Connections
Weight (Typical)	0.65g *(0.023oz)*

Reeled quantities

	SBSMC
178mm (7″) reel	500

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

* Insertion Loss performance quoted is measured on an open FR4 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 - SBSMC range

SB	S	M	C	100	0334	M	X	B
Type	Case style	Size	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Packaging
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 number of zeros following Example: **0472** = 4700pF **0683** = 68000pF	**M** = ±20%	**X** = X7R	**T** = 178mm (7″) reel **R** = 330mm (13″) reel **B** = Bulk

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.

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