

Surface Mount Filter Arrays SA Series

Features

- The filter's structure minimizes residual inductance with a high self resonant frequency, ensuring large insertion loss in a wide band.
- The common ground electrode built into the chip ensures complete grounding of all lines at the ground on both ends. The filter is designed to control cross talk.
- An optimum constant can be selected from the capacity range of 22-22,000 pF to best suit the frequency.
- Solder plated nickel barrier terminations offer good solderability and resistance to soldering heat.
- Available lead free/RoHs Compliant

Applications

- Noise reduction for DC lines on computers
- Computer peripheral equipment
- Digital TV & VTR
- Cellular telephones
- Automotive electronics

Typical Electrical Characteristics

Rated Voltage 25 VDC to 50 VDC

Rated Current 0.3 Amps

IR 10,000 M Ω Min.

DC Resistance 0.3 Ω Max.

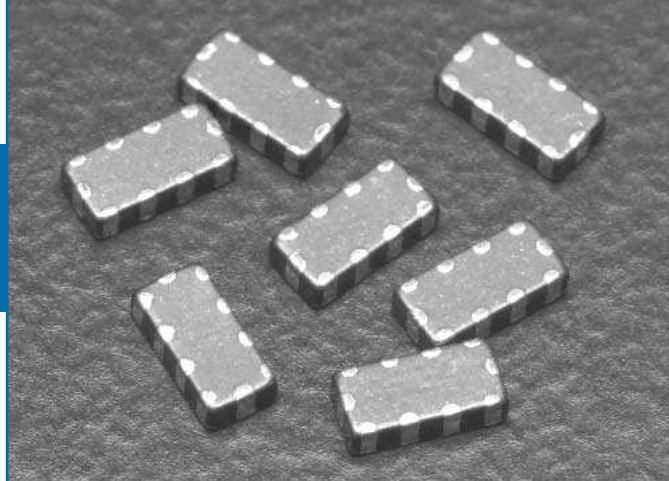
Temperature Range -55°C to +125°C

Capacitance Range 22 pF to 22,000 pF

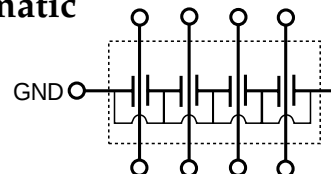
Capacitance Tolerance $\pm 20\%$

Specifications

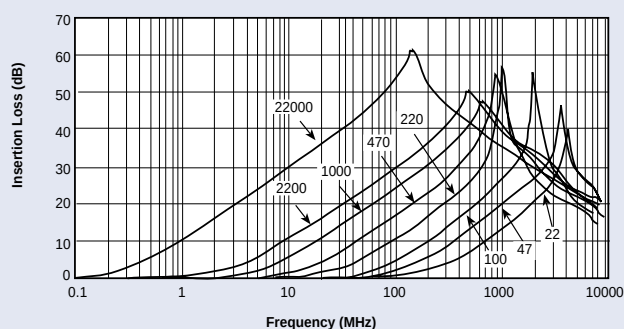
Part Number	Rated Voltage (@ 50/60Hz)	Rated Current	Temperature Characteristic	IR	DC Resistance	Operating Temp	Capacitance (pF)
SA1206C220	50 VDC	0.3A DC	C	10,000 M Ω min.	0.3 Ω max.	-55/+125°C	22
SA1206C470			C				47
SA1206C101			C				100
SA1206C221			C				220
SA1206U471			U				470
SA1206R102			R				1,000
SA1206R222			R				2,200
SA1206R223	25 VDC		R				22,000



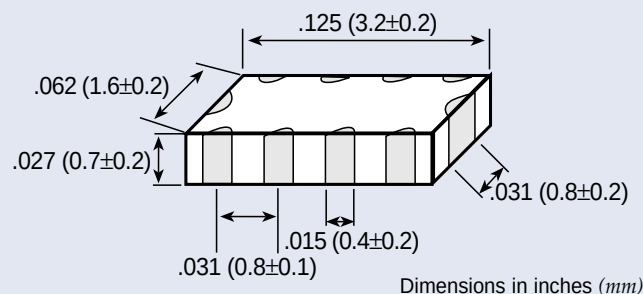
Circuit Schematic



Insertion Loss



Dimensions



Surface Mount Filter Arrays

SA Series

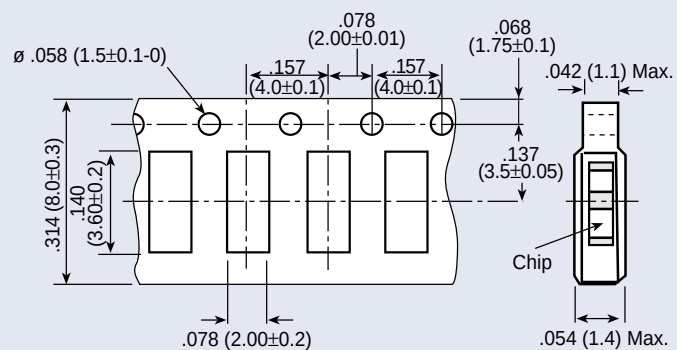
Ordering Information

SA	1206	C	220	M	B	N	B									
Style	Size	Temperature Characteristics	Capacitance	Capacitance tolerance	Rated Voltage (Vdc)	Termination	Packaging									
SA Series	1206	C +/- 30 ppm/°C R +/- 15% U -750 +/- 120 ppm/°C	<table><tr><th>Capacitance</th></tr><tr><td>22 pF</td></tr><tr><td>47 pF</td></tr><tr><td>100 pF</td></tr><tr><td>220 pF</td></tr><tr><td>470 pF</td></tr><tr><td>1,000 pF</td></tr><tr><td>2,200 pF</td></tr><tr><td>22,000 pF</td></tr></table>	Capacitance	22 pF	47 pF	100 pF	220 pF	470 pF	1,000 pF	2,200 pF	22,000 pF	M = ± 20%	A = 25 B = 50	N = Ni Barrier Solder Plated	T - Tape and reel 4,000 pc/reel B - Bulk pack 1,000 pcs/bag
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SA Tape and Reel Packaging

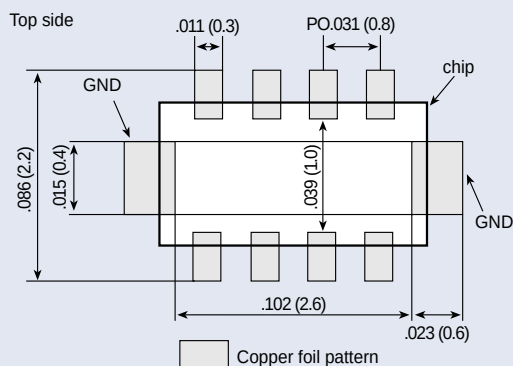
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SA Tape and Reel Packaging

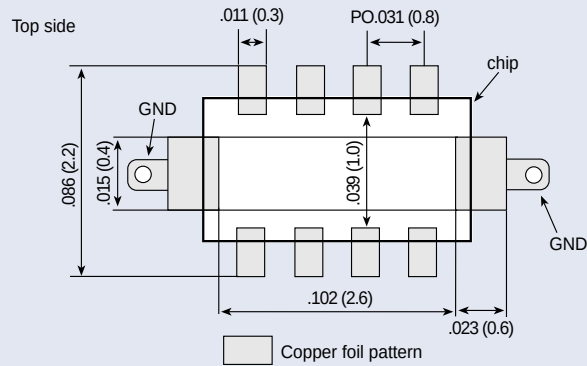
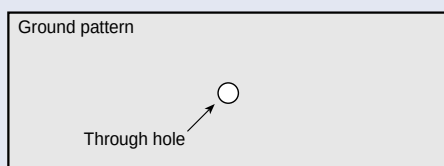


Dimensions in inches (mm)

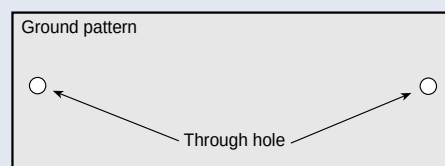
Recommended Board Pattern



Bottom side



Bottom side



Dimensions in inches (mm)