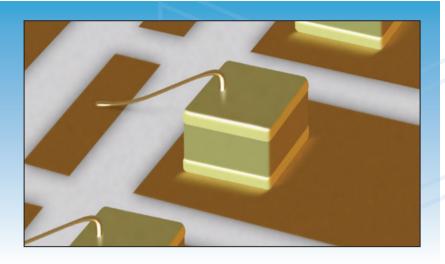


Single Layer Capacitors

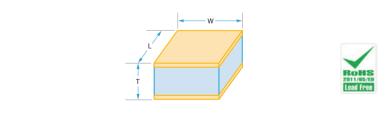


Specification - V Series Capacitors

Part Number	Capacitance	Voltage	Dissipation Factor @ 1MHz		ation tance @ +125C
V30BZ102M6SX	1nF ±20%	200WVDC	2.5%	10³ MΩ	$10^2 M\Omega$
V30BZ222M8SX	2.2nF ±20%	150WVDC	2.5%	10³ MΩ	$10^2 M\Omega$
V30BZ472M1SX	4.7nF ±20%	100WVDC	2.5%	10³ MΩ	$10^2 M\Omega$
V30BZ682M1SX	6.8nF ±20%	100WVDC	2.5%	10³ MΩ	$10^2 M\Omega$
V30BZ103M1SX	10nF ±20%	100WVDC	2.5%	10 ³ MΩ	$10^2 M\Omega$

Metal thickness is min. $100\mu^{\prime\prime}$ of Au over min. $50\mu^{\prime\prime}$ of Ni

Dent Normhan	Dimensions					
Part Number	Length	Width	Thickness			
V30BZ102M6SX						
V30BZ222M8SX	0.030"	0.030″	0.022″			
V30BZ472M1SX	±0.003"	±0.003"	±0.003"			
V30BZ682M1SX	(0.762mm ±0.076mm)	(0.762mm ±0.076mm)	(0.559mm ±0.0762mm)			
V30BZ103M1SX						



Part Number Identification

V	30	BZ	102	М	5	S	х	
Product V = V-Series	Case Size 30	Material BZ (X7R)	Capacitance (pF) 102 = 1nF 222 = 2.2nF 472 = 4.7nF 682 = 6.8nF 103 = 10nF	Tolerance M ± 20%	Voltage 5 = 50V 1 = 100V 6 = 200V 8 = 150V	Termination S (Au/Ni)	Test Level X = Commercial A = Group A B = Group B See test level definitions.	Packaging Available in Waffle Packs.

Description

Class II dielectric material with X7R characteristics for DC Blocking or RF Bypass applications in a broad frequency range.

These high frequency, wire bondable single layer capacitors are perfect for GaN and GaAs amplifier applications where small size and microwave performance is key to a well performing circuit.

Features

- X7R Temperature Stability
- Excellent high frequency response
- Wire Bondable
- RoHS compliant
- High capacitance in a small footprint
- MSL-1
- Rated Operating/Storage Temp. -55 to +125°C

Applications

- DC Blocking
- RF Bypassing
- Filtering
- Tuning
- Coupling

Benefits

- High Capacitance Density
- Up to 10nF in 30 mil square size
- Up to 200WVDC for high powered system needs
- Can be epoxy or AuSn solder mounted



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North America

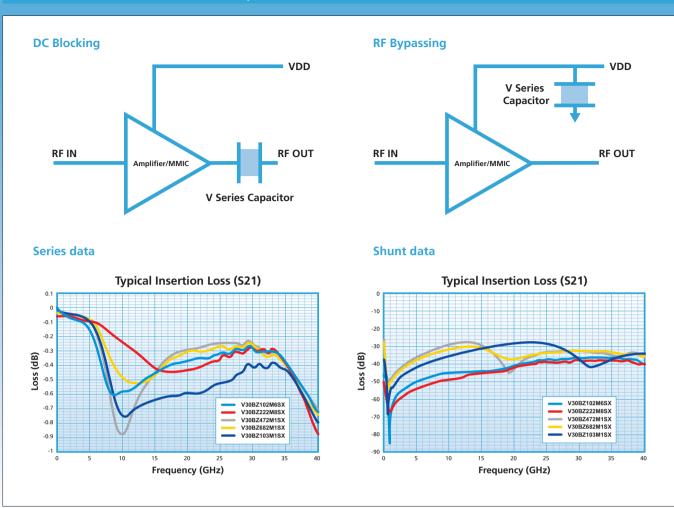
Knowles (Cazenovia) Phone: +1 315 655 8710 KCCSales@knowles.com

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Attachment Method - V Series Capacitors

Recommended Attachment Method (Conductive Epoxy) Alternative Attachment Method (Gold Eutectic)

Bonding can be done with either needle or automatic dispensers.

Epoxy curing defer to the epoxy manufacturer's preferred schedule but typically in the 125°C to 150°C range.

Benefits of epoxy is easier repairs, cure need not be started immediately so multiple substrates may be processed at one time and epoxy is effective in higher frequencies.