

GX Series



Ultra Broad Band Capacitor



ADVANTAGES

- Ultra-Broadband performance
- Ultra-Low Insertion Loss
- X5R & X7S Characteristics
- Excellent Return Loss

APPLICATIONS

- Semi-Conductor Data Communications Customers
- Receiver Optical Sub-Assemblies
- Transimpedance Amplifier Customers
- Test Equipment Manufactures

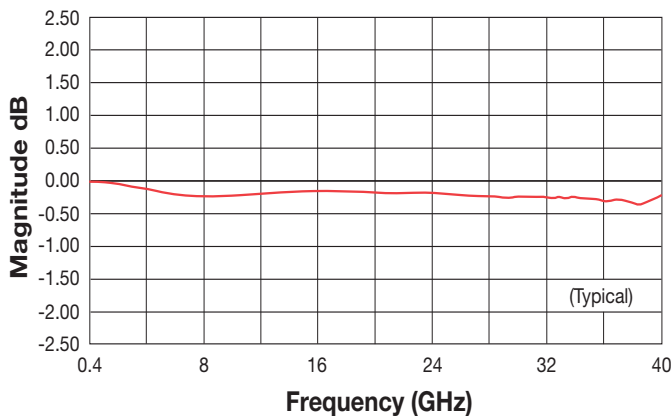
The GX Series was developed specifically to address DC Blocking issues from 160KHz (-3dB roll-off) to 40GHz. Most applications will experience resonance-free insertion loss of <0.5dB thru at least 40GHz. Insertion loss at higher frequencies is in part dependent on installation parameters. Using AVX's patented precision thin film termination process, the part is designed to be completely orientation insensitive with a standard EIA 0201 footprint to minimize board space requirements. Both

Ni/Sn and Ni/Au terminations are available to cover a wide range of attachment processes. All GX parts are RoHS compliant.

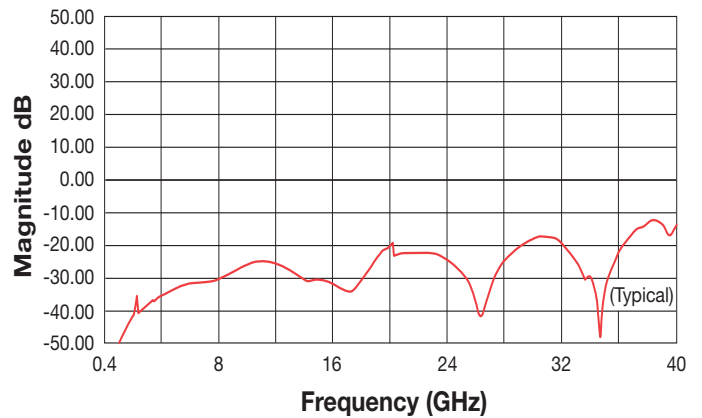
Au terminated units are wire bondable. Users may, therefore, find these devices equally useful in bypass applications when wire bonding is a necessary part of the manufacturing process.

More information can be obtained by contacting the factory or your local AVX representative.

GX01 Series – Insertion Loss (S21)



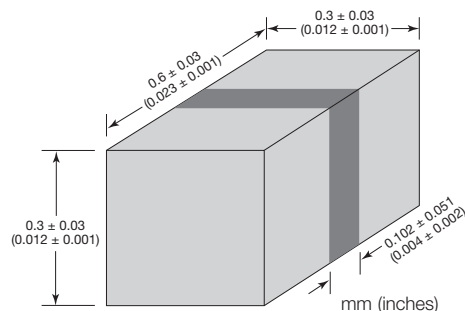
GX01 Series – Return Loss (S11)



Test Parameters:

All testing done on 10-mil thick Rogers R03006 Microstrip board, with device under test subtending a 10 mil gap in a 13.4 mil wide center trace (nominal 50 Ohm characteristic impedance)

MECHANICAL SPECIFICATIONS



GX Series



Ultra Broad Band Capacitor

ELECTRICAL SPECIFICATIONS

Capacitance	0.01 μ F GMV
Voltage Rating/Operating Temperature	10 VDC @ 85°C; 6.3 VDC @ 125°C
Dielectric Withstanding Voltage	250% WVDC
Insulation Resistance	10,000 Meg Ohms @ 25°C; 1,000 Meg Ohms @ 125°C
Temperature Coefficient	10 VDC X5R (\pm 15%); 6.3 VDC X7S (\pm 22%)

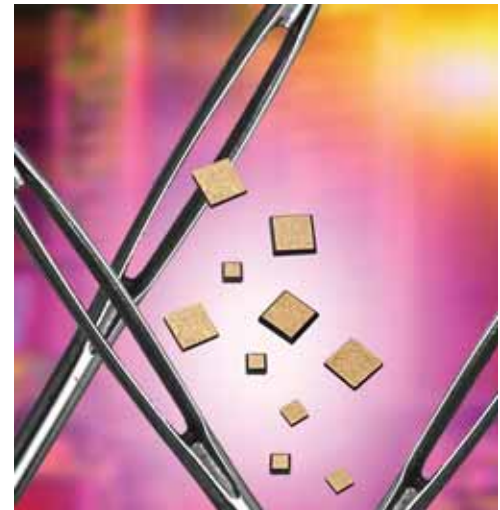
GX	01	ZD	103	P	A	T	D
Style	Case Size	Voltage/Dielectric	Capacitance	Tolerance	Failure Rate	Termination	Packaging
	01 = 0201	ZD = 10Vdc/X5R 6.3Vdc/X7S	103 = 0.01 μ F EIA Cap Code in pF	P = +100% -0%	A = Std	T = Ni-Sn (Standard) 7 = Ni-Au	D = 4000 pcs, 3" T&R D-500 = 500 pcs, 3" T&R D-1000 = 1000 pcs, 3" T&R

 = Under development

ADDITIONAL MICROWAVE PRODUCTS

AVX also manufactures a broad range of SLC (Single Layer Ceramic) products utilizing high k GBBL dielectrics especially suitable for space constrained broadband bypass/decoupling applications. A variety of voltage ratings are available and all dielectrics are suitable for operation from -55°C to +125°C. All SLC products are RoHS compliant.

Style	GH/GB01/06	GH/GB01/06	GH/GB01/06	GH10-55	
Dielectric	Z	Maxi	Maxi+	Ultra Maxi	
k	2.5K-18K	20K	30K	60K	
TC	X7S	X7R	X7R	X7R	
Cap Range	20-4700pF	68-8200pF	330-10000pF	200-6500pF	
Rating	50/100VDC	50VDC	50VDC	25VDC	
Nom	mm sq	0.38 / 2.28	0.38 / 2.28	0.38 / 2.28	0.25 / 1.40
Sizes	inches sq	0.015 / 0.090	0.015 / 0.090	0.015 / 0.090	0.010 / 0.055



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