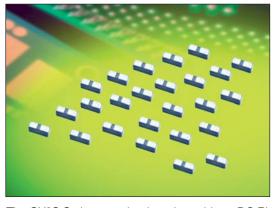
GX0S Series

Ultra Broad Band Capacitor





ADVANTAGES

- Ultra-Broadband performance
- Ultra-Low Insertion Loss
- Excellent Return Loss

APPLICATIONS

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

The GXOS Series was developed to address DC Blocking issues from ~16KHz (-3dB roll-off) to 40GHz and was designed specifically for mounting on strip lines with widths less than 20mils. In most applications, insertion loss (as shown below) will typically fall in the range of 0.4dB. Insertion loss at frequencies higher than 40GHz will be in part dependent on installation parameters. These devices utilize AVX's patented precision thin film termination process and are especially well suited for high volume solder assembly.

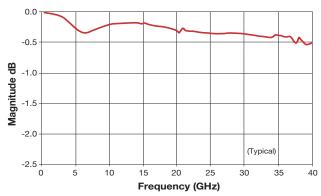
Both Ni/Sn and Ni/Au terminations are available to cover a wide range of attachment processes.

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

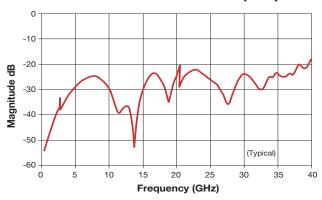
GXOS products (like all GX Series parts) are RoHS compliant.

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

GX0S Series – Insertion Loss (S21)

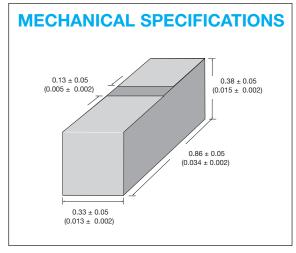


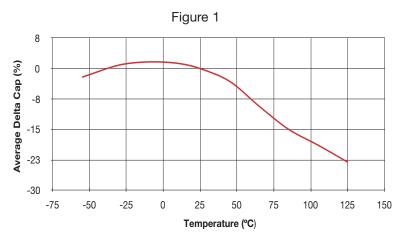
GX0S Series – Return Loss (S11)



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)







GX0S Series

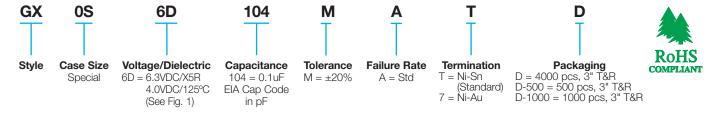


Ultra Broad Band Capacitor

ELECTRICAL SPECIFICATIONS

Capacitance	0.1 uF ±20%
Voltage Rating/Operating Temperature	6.3 VDC @ 85°C, 4 VDC @ 125°C
Dielectric Withstanding Voltage	250% WVDC
Insulation Resistance	10,000 Meg Ohms @ 25°C, 1,000 Meg Ohms @ 125°C
Temperature Coefficient	6.3 VDC (X5R), 4 VDC - See Figure 1

HOW TO ORDER



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D55342E07B523DR-T/R NCA1206X7R104K16TRPF NIN-FB391JTRF NIN-FC2R7JTRF NMC0402XPO220J50TRPF

NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF NMC0402X7R153K16TRPF

NMC0402X7R392K50TRPF NMC0603NPO1R8C50TRPF NMC0603NPO201J50TRPF NMC0603NPO330G50TRPF

NMC0603NPO331F50TRPF NMC0603X5R475M6.3TRPF NMC0805NPO220J100TRPF NMC0805NPO270J50TRPF

NMC0805NPO681F50TRPF NMC0805NPO820J50TRPF NMC1206X7R102K50TRPF NMC1210Y5V105Z50TRPLPF NMC
L0402NPO7R0C50TRPF NMC-L0603NPO2R2B50TRPF NMC-P1206X7R103K1KVTRPLPF NMC-Q0402NPO8R2D200TRPF

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1812J2K00332KXT CCR06CG153FSV CDR14BP471CJUR CDR31BX103AKWR CDR33BX683AKUS CGA2B2C0G1H010C

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CGA2B2C0G1H6R8D