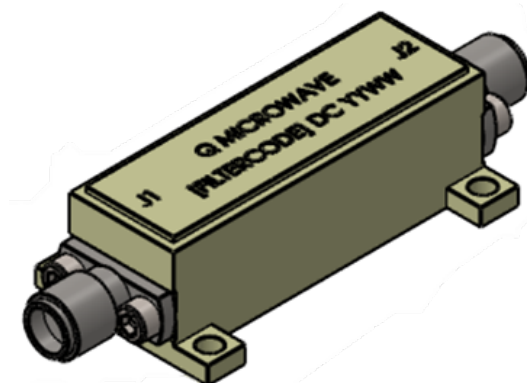


Features

- Wideband S to C Band Coverage
- Rugged Design
- EW and Radar Focused

Applications

- Anti-Aliasing Filter
- Communications
- EW Applications



Product Overview

The QLB003-CSMA is a 50 Ω bandpass filter in a rugged connectorized package. With a broadband frequency range covering S & C bands the filter acts as a first stage to reduce out of band noise for Radar and EW applications.

Electrical Specifications @ 25°C

Over Temperature information available when requested

Characteristic Impedance 50 Ω

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss Passband	2000-8000		1.5	1.7	dB
Insertion Loss Center Frequency	5000		0.7	0.8	dB
Return Loss	2000-8000	12	14		dB
Lower Rejection Stop Band	10-1780	45	48		dBc
Upper Rejection Stop Band	10000-12000	45	48		dBc

*Contact Factory if additional parameters are required such as: Ripple, Phase Linearity, Group Delay, etc.





Absolute Maximum Ratings

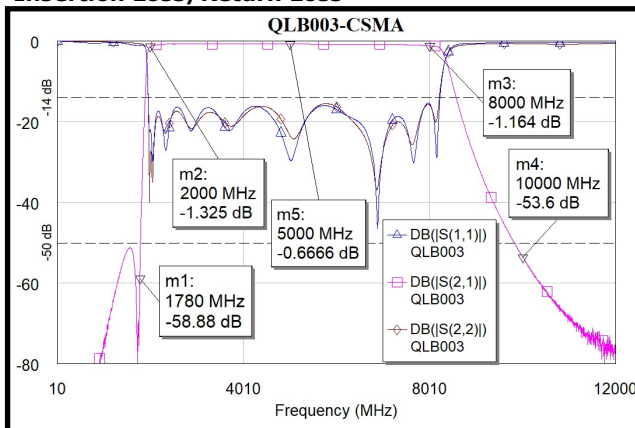
Permanent Damage may occur if any of these limits are exceeded

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-65°C to +90°C
Input Power	1 Watt

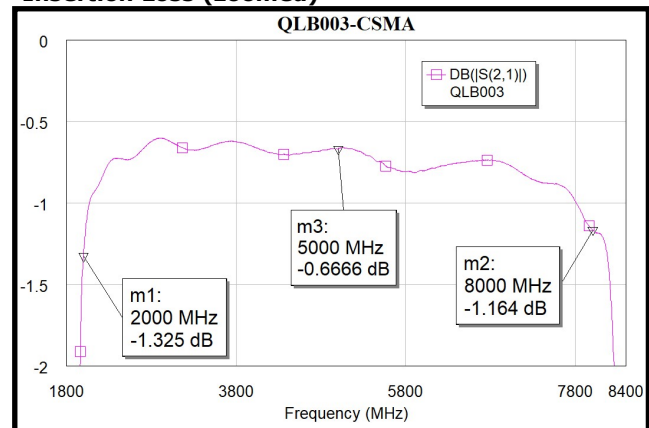
Typical Performance Graphs @ 25°C

Performance may be simulated contact factory for details or associated S-Parameter files.

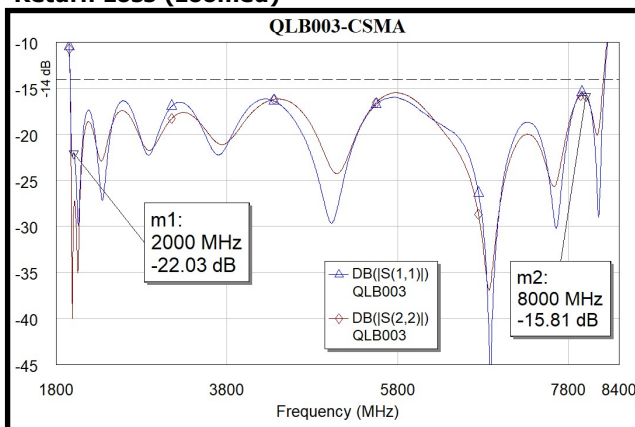
Insertion Loss/Return Loss



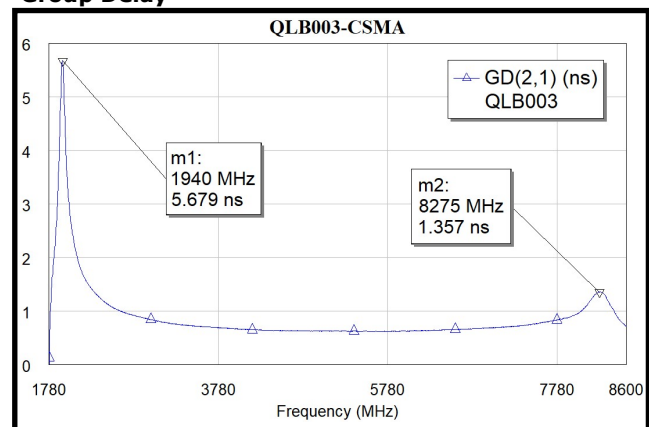
Insertion Loss (zoomed)



Return Loss (zoomed)



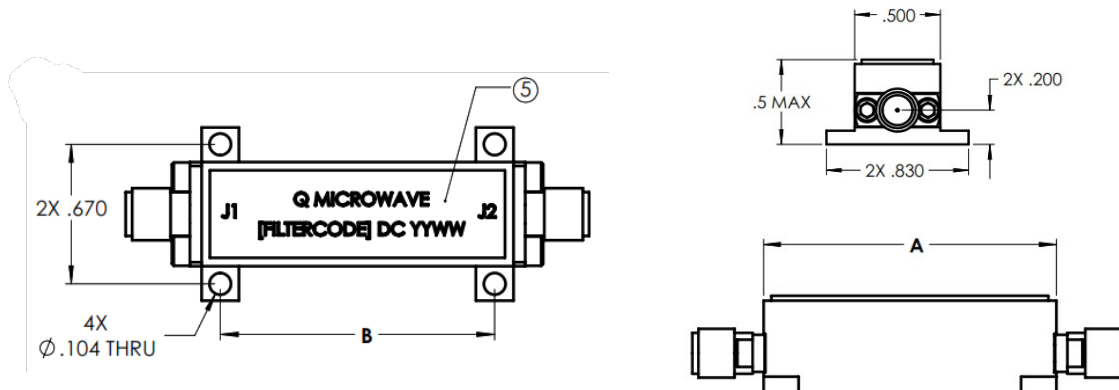
Group Delay





Mechanical Detail

1) Material	HOUSING: ALUMINUM, 6061-T6 ; COVER: ALUMINUM, 4047
2) Finish	CHEMICAL CONVERSION COATING, PER MILDTL-5541, CLASS 1A (YELLOW)
3) Hermeticity	LASER SEALED HERMETIC PACKAGE. GROSS LEAK LEVEL PER MIL-STD-202 M112, COND D. FINE LEAK LEVEL PER MIL-STD-202 M112, COND C, MAX 1×10^{-6}
4) Input/Output	FIELD REPLACEABLE SMA (F), FINISH PASSIVATED STAINLESS STEEL.
5) Marking	LASERMARK APPROXIMATELY AS SHOWN
6) Package	901537-2



Package Number	DIM "A" (Inches)	DIM "B" (Inches)	Max Weight (grams)
901537-1	1.500	1.320	18.5
901537-2	2.000	1.820	23
901537-3	2.500	2.320	27.5

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