

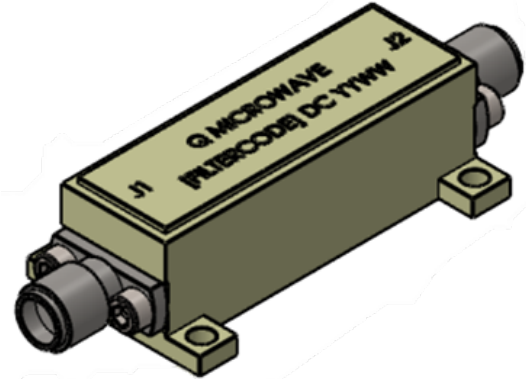


Features

- Anti-Aliasing
- Low Insertion Loss
- Rugged Design

Applications

- Anti-Aliasing Filter
- Communications
- EW Applications



Product Overview

The QLB001-CSMA is a 50 Ω bandpass filter in a rugged connectorized package. With close in rejections this filter acts as a brick wall, perfect for signal conditioning before any analog to digital converter. With low insertion loss you will see minimal impact to noise figure while reducing unwanted noise outside the band of interest.

Electrical Specifications @ 25°C

Over Temperature information available when requested

Characteristic Impedance 50 Ω

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss Passband	1000-2000		1.5	1.7	dB
Insertion Loss Center Frequency	1500		0.65	0.8	dB
Return Loss	1000-2000	12	13.25		dB
Lower Rejection Stop Band	10-875	45	48		dBc
Upper Rejection Stop Band	2300-5000	45	48		dBc

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





Absolute Maximum Ratings

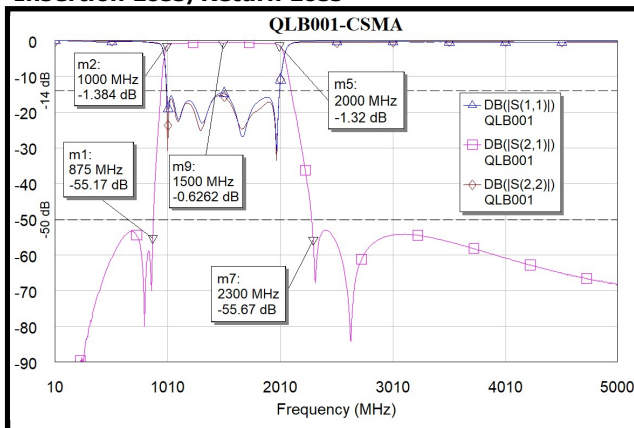
Permanent Damage may occur if any of these limits are exceeded

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

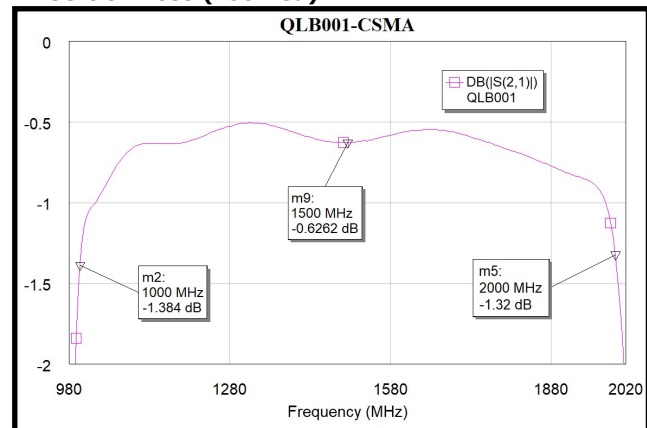
Typical Performance Graphs @ 25°C

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

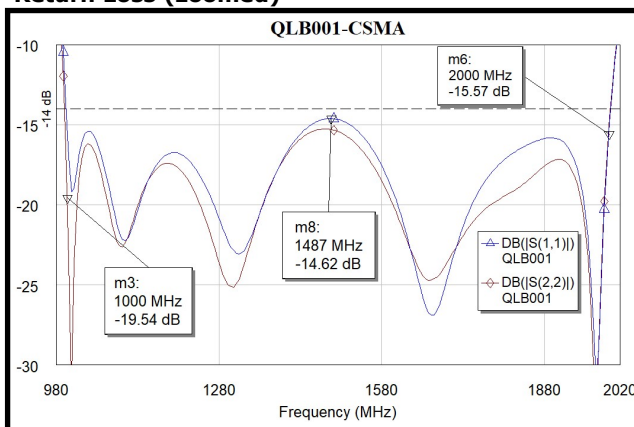
Insertion Loss/Return Loss



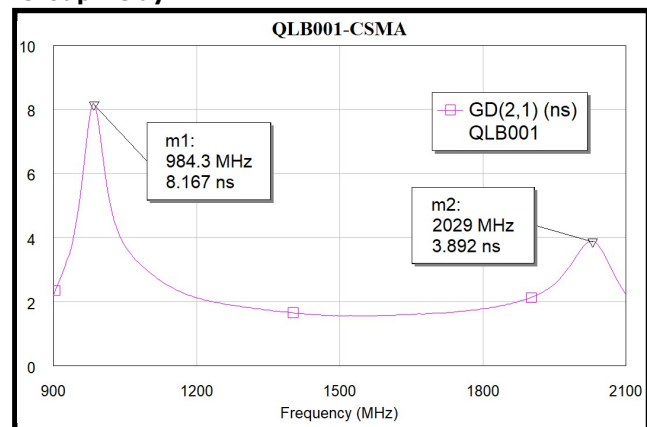
Insertion Loss (zoomed)



Return Loss (zoomed)



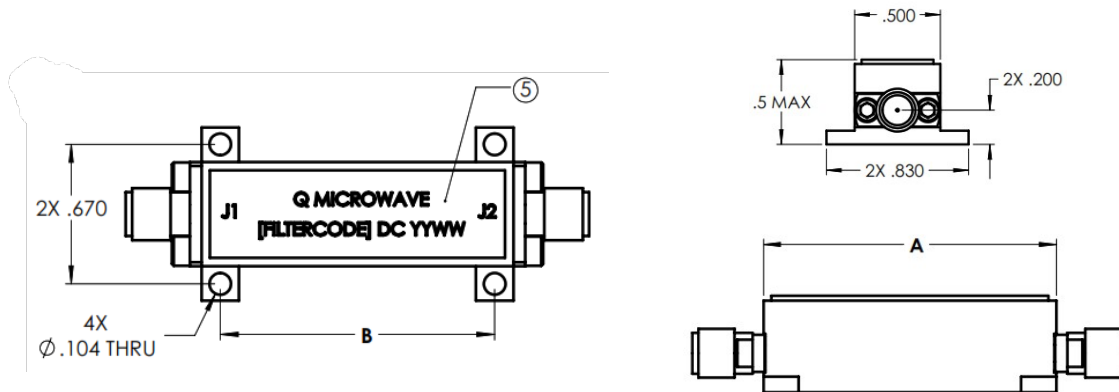
Group Delay





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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