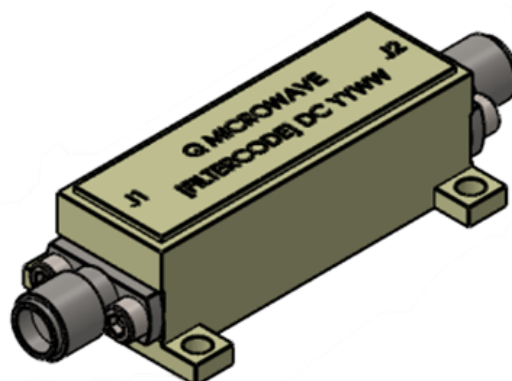


## Features

- Anti-Aliasing
- Low Insertion Loss
- Rugged Design

## Applications

- Anti-Aliasing Filter
- Communications
- EW Applications



## Product Overview

The QLB002-CSMA is a 50 $\Omega$  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 on interest.

## Electrical Specifications @ 25°C

Over Temperature information available when requested

## Characteristic Impedance 50 $\Omega$

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss Passband	900-1400		-1.55	-1.7	dB
Insertion Loss	1150		-0.7	-0.85	dB
Return Loss	900-1400	-12	-14		dB
Lower Rejection Stop Band	10-800	-45	-50		dBc
Upper Rejection Stop Band	1560-10000	-45	-50		dBc

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





## Absolute Maximum Ratings

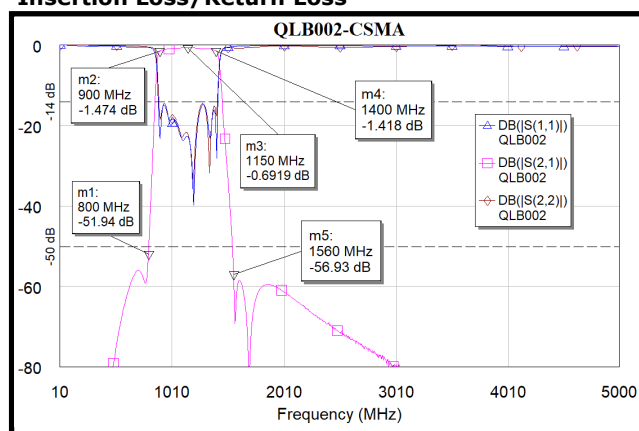
Permanent Damage may occur if any of these limits are exceeded

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

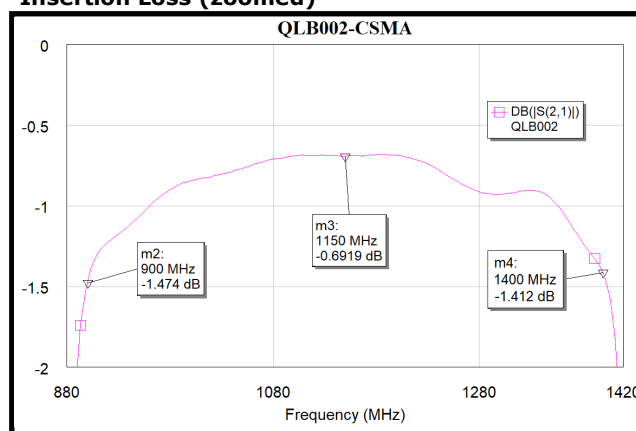
## Typical Performance Graphs @ 25°C

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

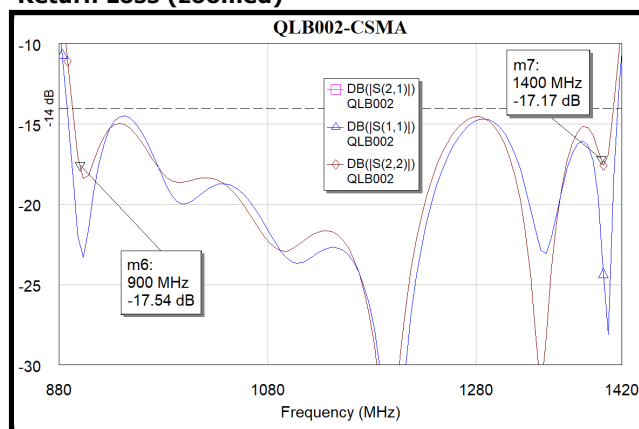
### Insertion Loss/Return Loss



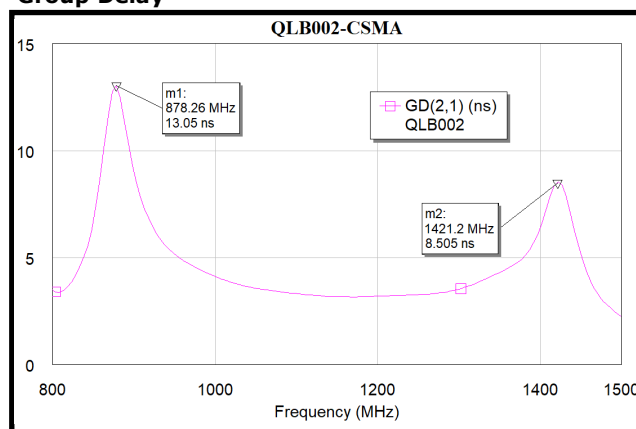
### Insertion Loss (zoomed)



### Return Loss (zoomed)



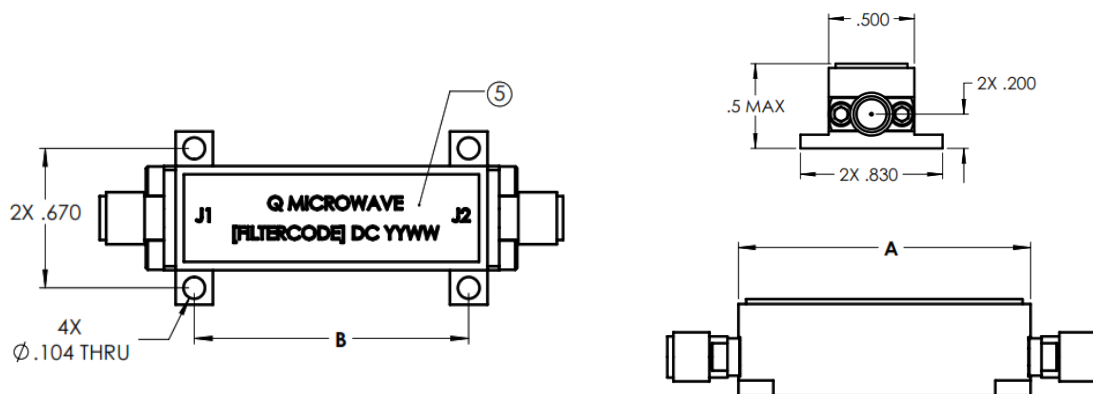
### Group Delay





## Mechanical Detail

<b>1) Material</b>	HOUSING: ALUMINUM, 6061-T6 ; COVER: ALUMINUM, 4047
<b>2) Finish</b>	CHEMICAL CONVERSION COATING, PER MILDTL-5541, CLASS 1A (YELLOW)
<b>3) Hermeticity</b>	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 $1 \times 10^{-6}$
<b>4) Input/Output</b>	FIELD REPLACEABLE SMA (F), FINISH PASSIVATED STAINLESS STEEL.
<b>5) Marking</b>	LASERMARK APPROXIMATELY AS SHOWN
<b>6) Package</b>	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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