

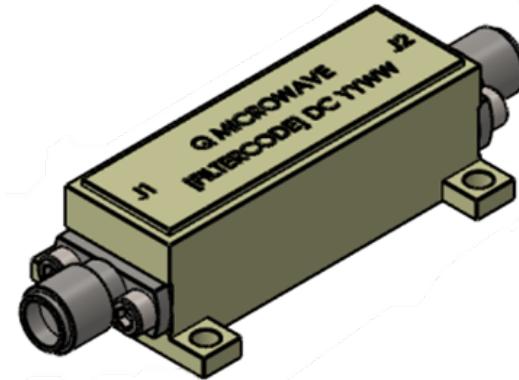


## Features

- Lowpass Filter
- Rugged Design
- Rejections beyond C-Band
- Hermetic Package

## Applications

- Anti-Aliasing Filter
- Communications
- EW Applications



## Product Overview

The QLL004-CSMA is a  $50\Omega$  lowpass filter in a rugged connectorized package. Intended to be a first line of defense against unwanted spectrum noise above C-Band this filter will provide low insertion loss for minimal impact to noise figure.

## Electrical Specifications @ 25°C

Over Temperature information available when requested

## Characteristic Impedance $50\Omega$

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss Passband	10-6300		1.5	1.7	dB
Insertion Loss Center Frequency	3205		0.5	0.6	dB
Return Loss	10-6300	12	14		dB
Rejection Stop Band	7100-12000	45	50		dBc

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





## Absolute Maximum Ratings

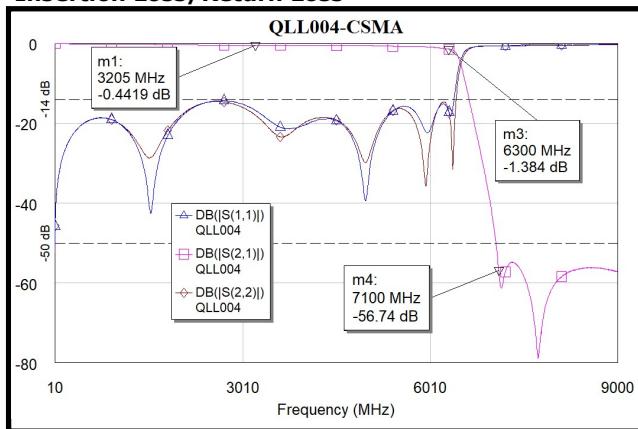
Permanent Damage may occur if any of these limits are exceeded

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

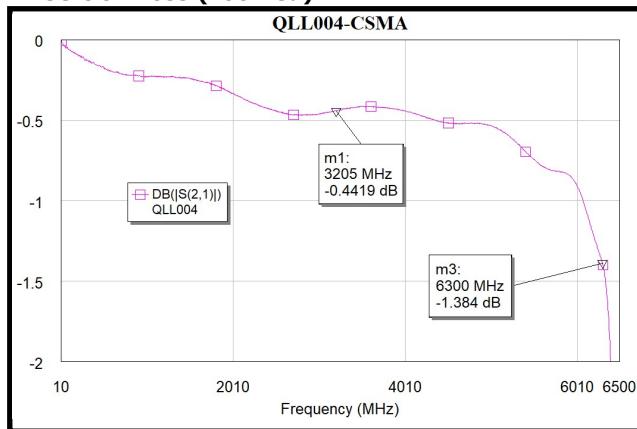
## Typical Performance Graphs @ 25°C

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

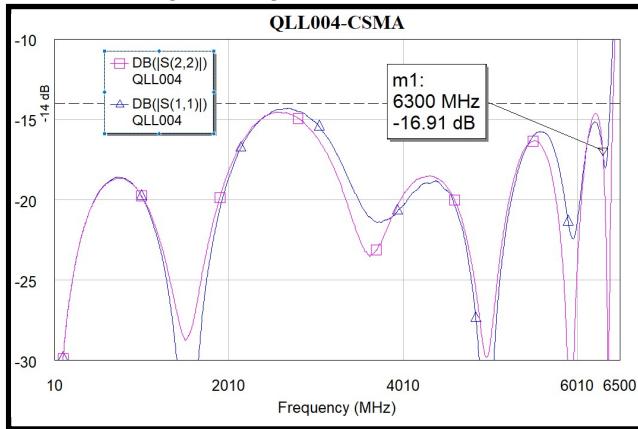
### Insertion Loss/Return Loss



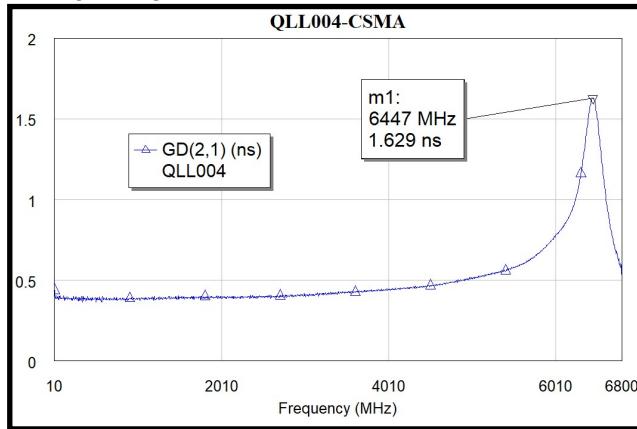
### Insertion Loss (zoomed)



### Return Loss (zoomed)



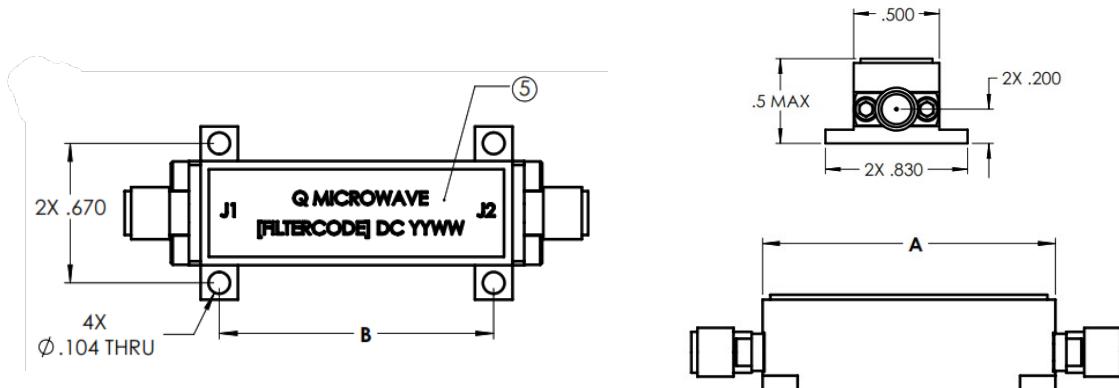
### Group Delay





## 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>	901537-1



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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