

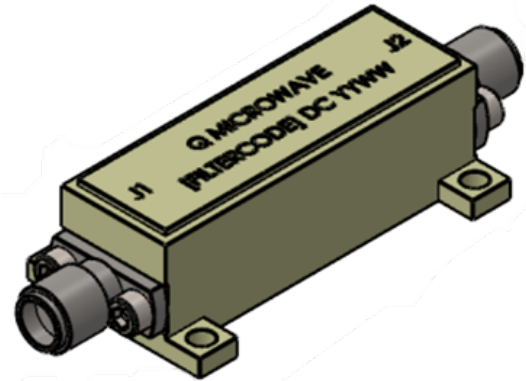


Features

- 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 Ω 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 Ω

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.

**Contact Factory for package options such as: SMT, Microstrip, etc.





Absolute Maximum Ratings

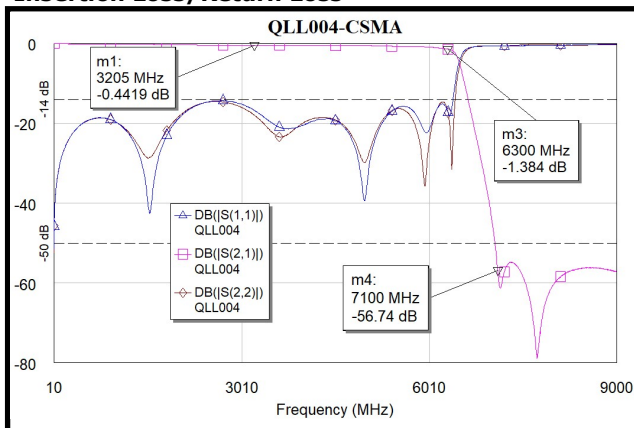
Permanent Damage may occur if any of these limits are exceeded

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

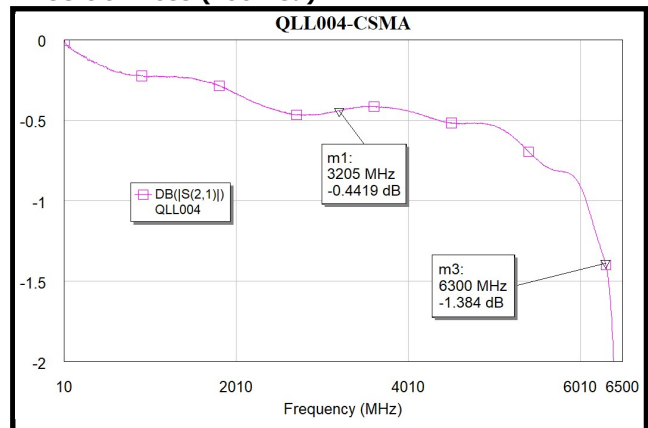
Typical Performance Graphs @ 25°C

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

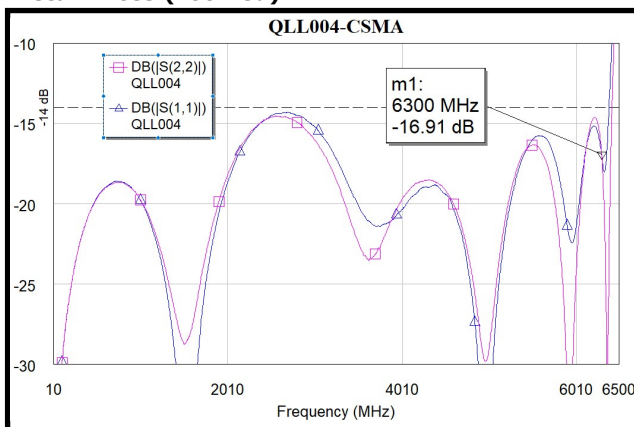
Insertion Loss/Return Loss



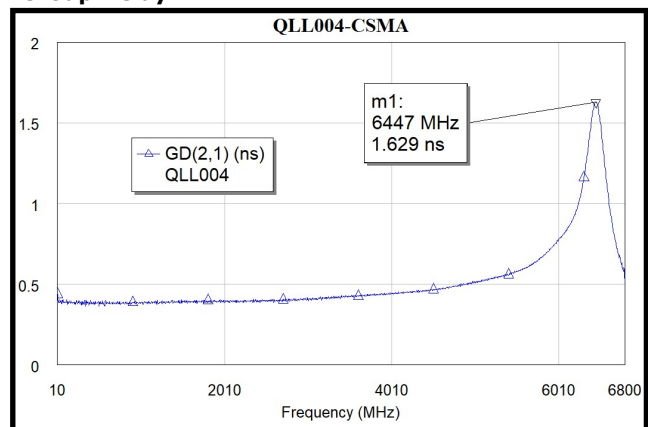
Insertion Loss (zoomed)



Return Loss (zoomed)



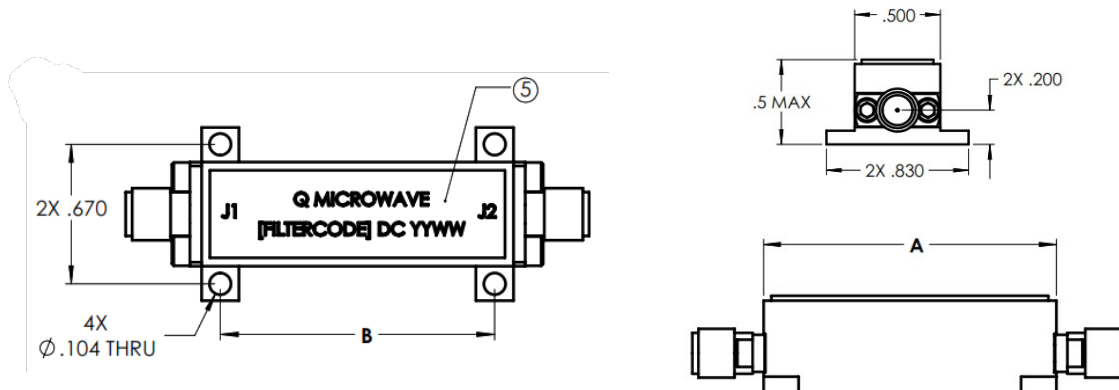
Group Delay





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	901537-1



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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