

## Features

- Narrow Band
- High Rejection
- Medium to High Power Handling

## Applications

- SATCOM Satellite Link RX
- Communications
- EW Applications



\*\*Image may be a representation of the final product and see outline for details.

## Product Overview

The QCB010-CSMA is a 50 $\Omega$  bandpass filter in a rugged connectorized package. This filter is intended for SATCOM Datalink Receive/Transmit applications this filter provides a very narrow passband with high out of band rejections close in to the operational frequency.

## Electrical Specifications @ 25°C

Over Temperature information available when requested

## Characteristic Impedance 50 $\Omega$

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss Passband	10112 — 10462		2.0	2.2	dB
Insertion Loss Center Frequency	10287		1.5		dB
Return Loss	10112 — 10462	14	15		dB
Lower Rejection Stop Band	1000 — 9800	55	58		dBc
Lower Rejection Stop Band	9800 — 9950	20	22		dBc
Upper Rejection Stop Band	10625 — 10770	20	22		dBc
Upper Rejection Stop Band	10770 — 18000	55	58		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

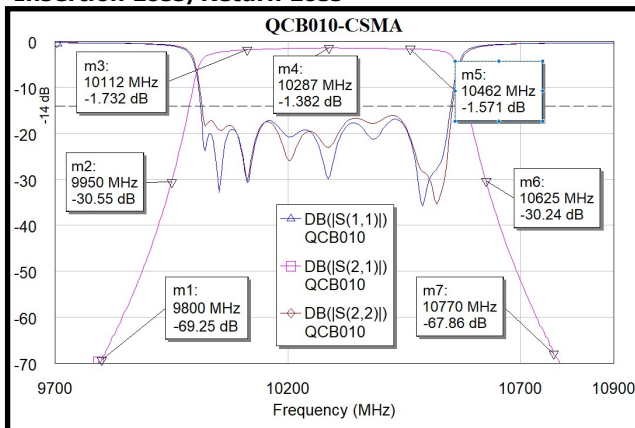
Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +150°C
Input Power	2 Watt

\*Contact Factory to request information if higher power rating capabilities

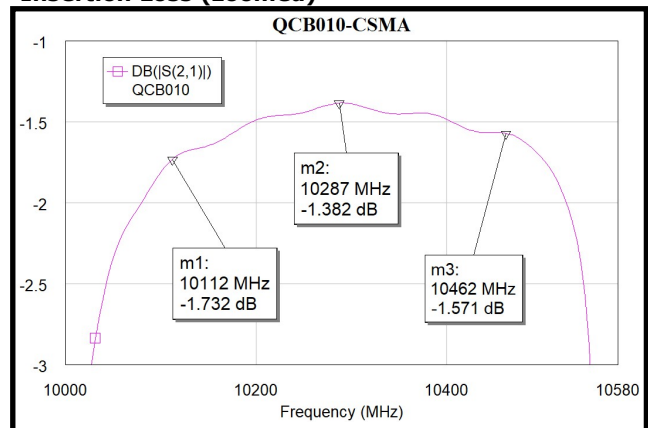
## Typical Performance Graphs @ 25°C

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

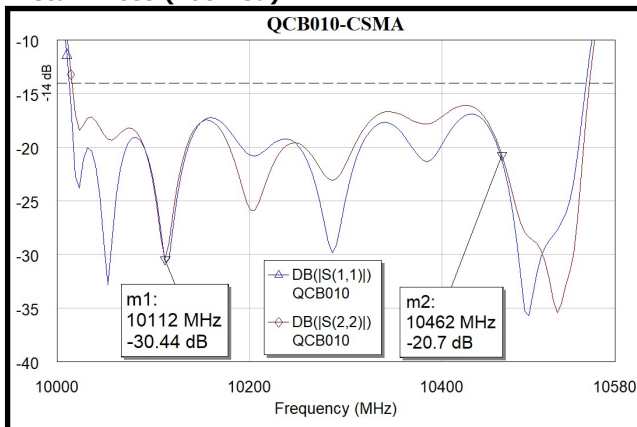
### Insertion Loss/Return Loss



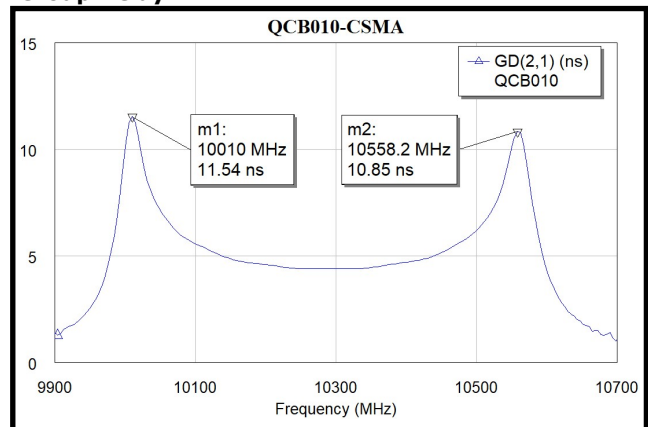
### Insertion Loss (zoomed)



### Return Loss (zoomed)



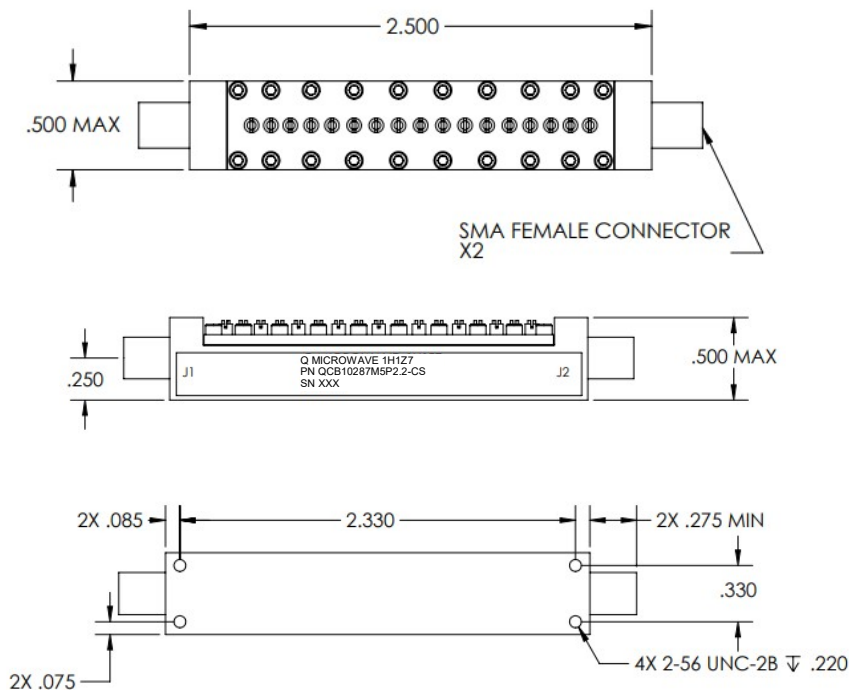
### Group Delay





## Mechanical Detail

<b>1) Material</b>	HOUSING: ALUMINUM, 6061-T6 ; COVER: ALUMINUM, 6061
<b>2) Finish</b>	GRAY PAINT
<b>3) Hermeticity</b>	ENVIRONMENT SEAL
<b>4) Input/Output</b>	SMA (F), FINISH PASSIVATED STAINLESS STEEL.
<b>5) Marking</b>	POLYIMIDE LABEL, GLOSSY WHITE
<b>6) RoHs Compliance</b>	ROHS COMPLIANT
<b>6) Package</b>	901589



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