



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 50Ω 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 50Ω

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

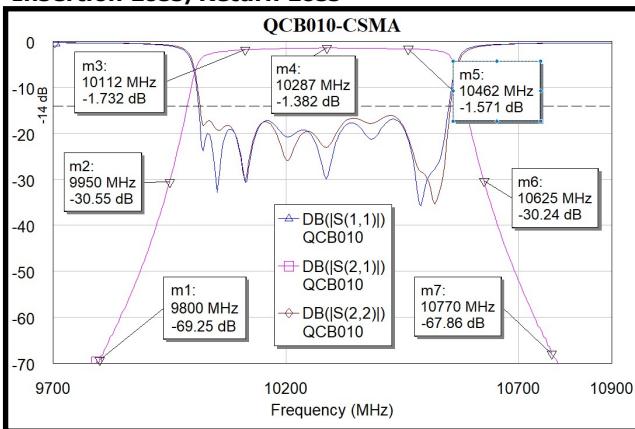
Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +150°C
Input Power	2 Watt

*Contact Factory to request information if higher power rating capabilities

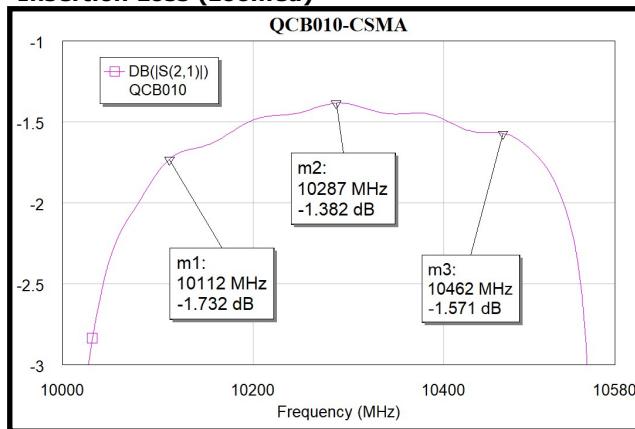
Typical Performance Graphs @ 25°C

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

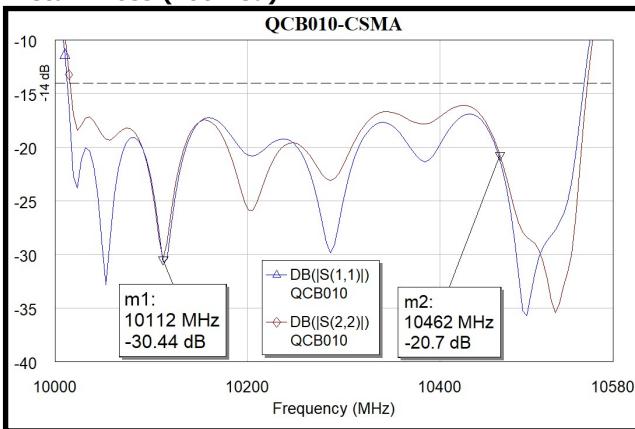
Insertion Loss/Return Loss



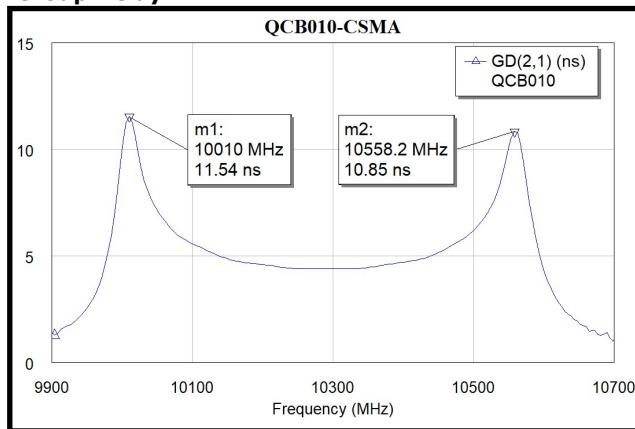
Insertion Loss (zoomed)



Return Loss (zoomed)



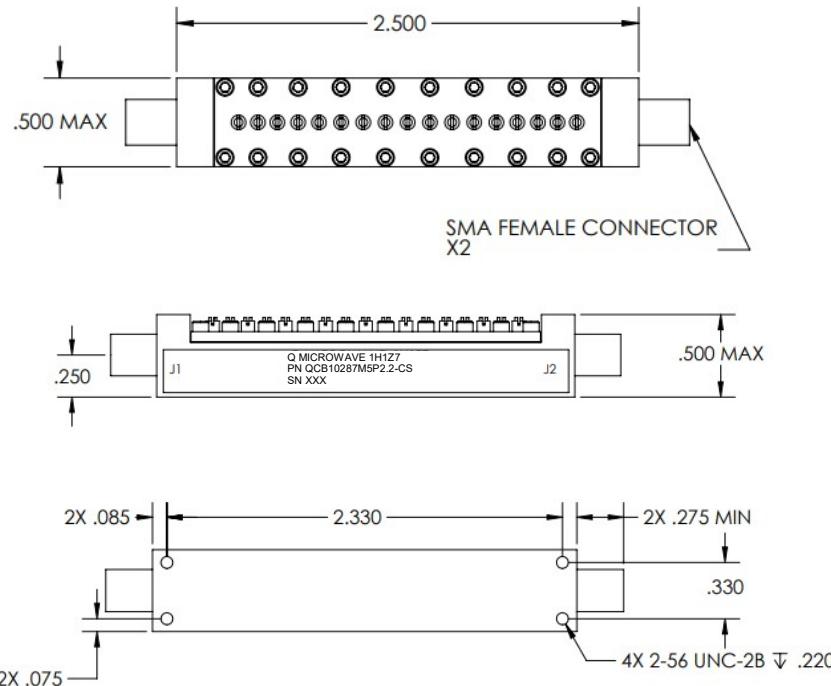
Group Delay





Mechanical Detail

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



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