



Features

- Wideband 5% Bandwidth
- Low Insertion Loss
- Steep Rejections

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 QCB10287M5P2.2-CS is a 50Ω 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 50Ω

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Insertion Loss Passband	10112 – 10462		1.5	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	-65		dBc
Lower Rejection Stop Band	9800 – 9950	-20	-25		dBc
Upper Rejection Stop Band	10625 – 10770	-20	-25		dBc
Upper Rejection Stop Band	10770 – 18000	-55	-65		dBc

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





Absolute Maximum Ratings

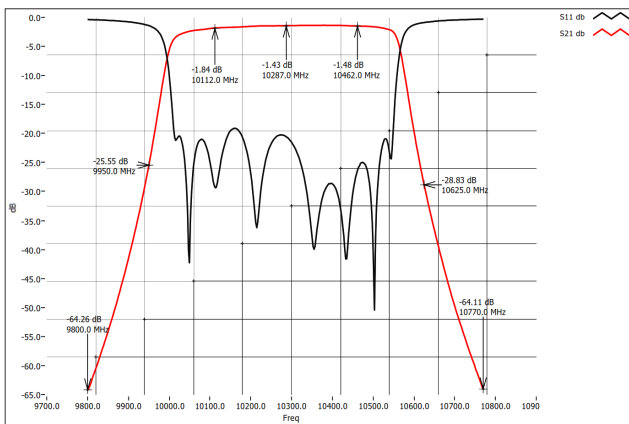
Permanent Damage may occur if any of these limits are exceeded

Parameter	Ratings
Operating Temperature	-40°C to +125°C
Storage Temperature	-55°C to +150°C
Input Power	50 Watt

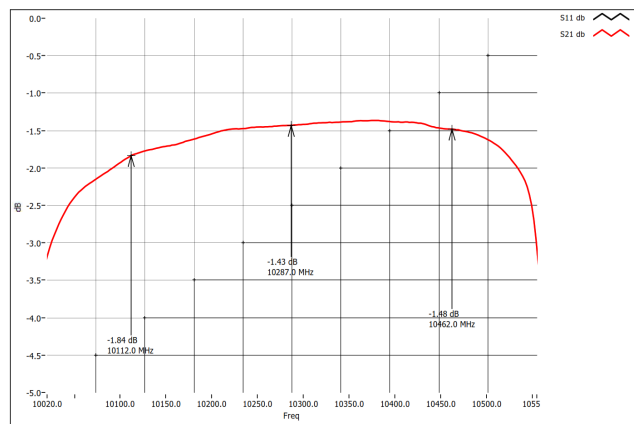
Typical Performance Graphs @ 25°C

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

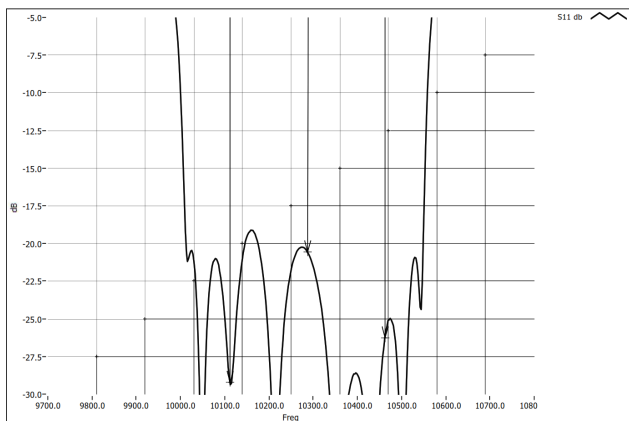
Filter Response



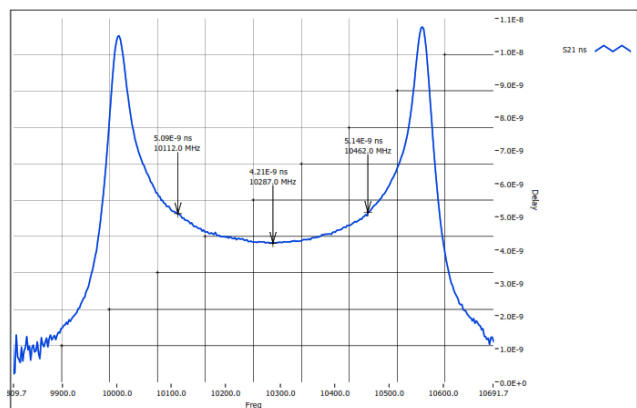
Insertion Loss



Return Loss



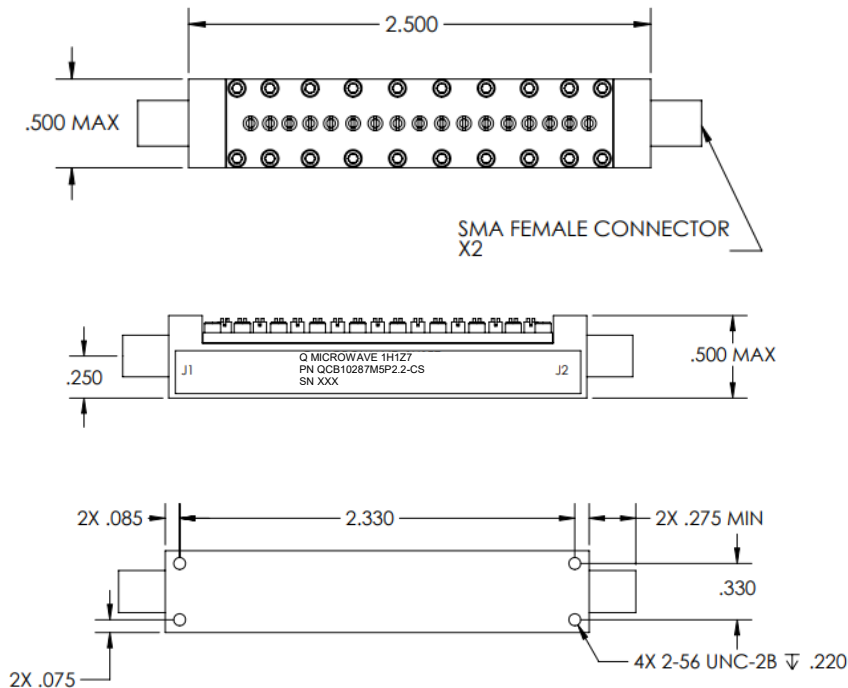
Group Delay





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) Package	900616



Important Notice

The information contained herein is believed to be reliable; however, Q Microwave makes no warranties regarding the information contained herein and assumes no responsibility or liability whatsoever for the use of the information contained herein. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for Q Microwave products. The information contained herein, or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

THIS INFORMATION DOES NOT CONSTITUTE A WARRANTY WITH RESPECT TO THE PRODUCTS DESCRIBED HEREIN, AND Q MICROWAVE, INC. HEREBY DISCLAIMS ANY AND ALL WARRANTIES WITH RESPECT TO SUCH PRODUCTS WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Q Microwave, Inc. products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

Q Microwave's Standard Terms & Conditions Apply (Unless Otherwise Specified): www.qmicrowave.com/sales

