





MCB2070A - Preliminary

20.20-21.20GHz mmWave ClearPlex Bandpass Filter

Features

High-Q Low-Loss with High Rejection

Applications

mmWave carrier-grade Infrastructure applications



Part Dimensions: $13.6 \times 3.2 \times 1.3 \text{ mm} \cdot <1.0 \text{ g}$

Description

Surface mount bandpass filter with I/Os that can interface to micro-strip transmission lines on the top-layer of customer PCBs. Superior rejection, insertion loss, reliability, temperature stability as well as both peak and average power handling compared to other mmWave bandpass filter technologies.

Electrical Specifications

Parameter	Frequency (GHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	5.0 Watt max
Peak Input Power	-	-	-	50 Watt max
Input-Output Response				
Passband Insertion Loss	20.20 - 21.20			3.0 dB Max
Passband Ripple	20.20 - 21.20			1.2 dB Max
Passband Return Loss	20.20 - 21.20			14 dB Goal
				12 dB Min
Attenuation:	19.20			40 dB Min
	22.20			40 dB Goal

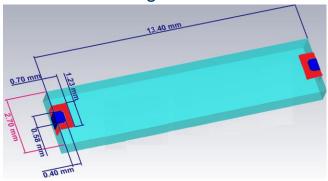
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances. Specification Allowance
Insertion Loss 0.1 dB
Return Loss 1.0 dB
Attenuation 1.0 dB



Preliminary - MCB2070A

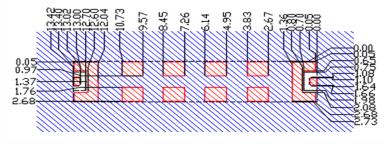
20.20-21.20GHz mmWave ClearPlex Bandpass Filter

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
Α	13.40	0.20
В	2.40	0.30
С		
D		
Е		
F		
G		
Н	1.10	0.20
- 1		
J		

PCB Layout

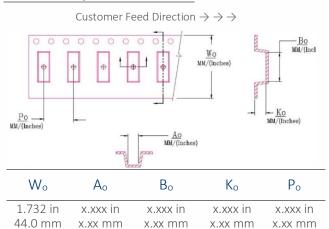




Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	X.X
Reel Quantity	ea.	Xxx

Product Marking No marking on the filters



Electrical Response

