

MTB0910A

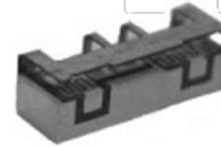
8.9-9.3 GHz Bandpass Filter

Features

- Low Loss with High Rejection
- Low ripple

Applications

- Wireless Infrastructure applications



Part Dimensions: 9.0 x 2.7 x 3.1 mm • 0.15 g
Materials: Ag plated ceramic block with tin plated brass shield

Description

Surface mount ceramic bandpass filter. Superior rejection, insertion loss, reliability, as well as both peak and average power handling compared other bandpass filter technologies.

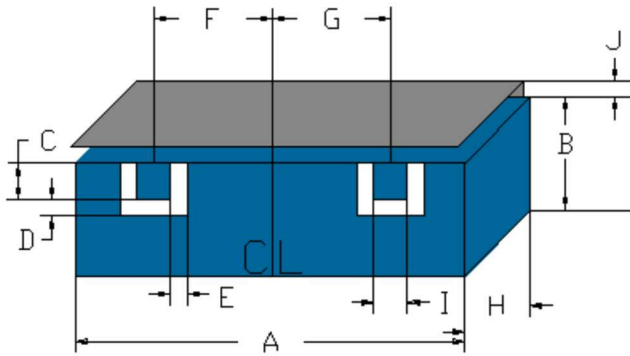
Electrical Specifications

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	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max
Input-Output Response				
Passband Insertion Loss (single point)	8.90 – 9.30	2.5 dB	3.0 dB min	3.0 dB min
Passband Return Loss	8.90 – 9.30	14 dB	12 dB min	12 dB min
Group Delay Variation (Max-Min)	8.90 – 9.30	3.0 ns	10 ns max	10 ns max
Attenuation:	1 - 8.42	34 dB	30 dB min	30 dB min
	8.70	33 dB	20 dB min	20 dB min
	8.80	11 dB	10 dB min	10 dB min
	9.40	10.5 dB	10 dB min	10 dB min
	9.50	28 dB	20 dB min	20 dB min
	9.78	34 dB	30 dB min	30 dB min

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.

<u>Specification Allowance</u>	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	8.97	max
B	1.85	max
C	0.50	0.13
D	0.30	0.13
E	0.40	0.13
F	2.70	0.13
G	2.70	0.13
H	3.10	max
I	0.89	0.13
J	0.63	0.20

PCB Layout

