



CER1228A - PRELIMINARY

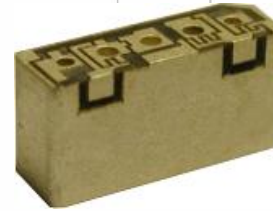
3400-3800 MHz Filter

Features

- Low Loss with High Rejection

Applications

- Specialty Wireless applications
- High-performance demanding field deployments



Part Dimensions: 9.1 × 5.4 × 3.0 mm • TBD g
Materials: Ag plated ceramic block

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 (MHz)	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 (5MHz avg)	3400-3800	1.2 dB	1.5 dB min	1.7 dB min
Passband Ripple	3400-3800	0.5 dB	0.8 dB max	1.0 dB max
Passband Return Loss	3400-3800	14 dB	12 dB min	12 dB min
Attenuation:	1-3150	43 dB	38 dB min	38 dB min
	4050-TBD	33 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.

Specification Allowance

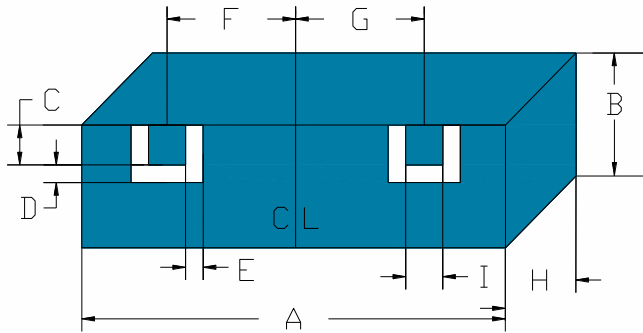
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB



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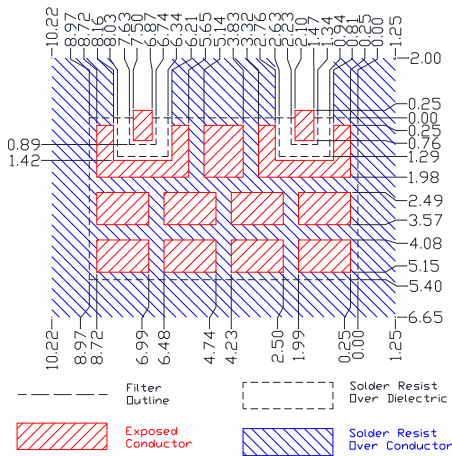
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Mechanical Drawing

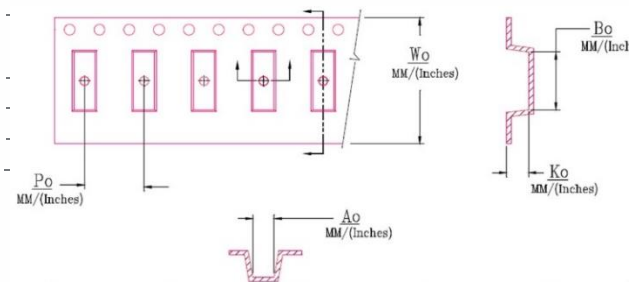


Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	8.97	0.13
B	5.40	max
C	0.89	0.13
D	0.40	0.13
E	0.40	0.13
F	2.70	0.13
G	2.70	0.13
H	2.90	0.13
I	0.89	0.13

PCB Layout



Packaging and Marking



W ₀	A ₀	B ₀	K ₀	P ₀
0.945 in 24.0 mm	0.217 in 5.5 mm	0.366 in 9.3 mm	0.126 in 3.2 mm	0.472 in 12.0 mm

Product Marking



Electrical Response

