CER0835E - PRELIMINARY

6.2-6.7 GHz Bandpass Filter

Part Dimensions: 9.0 × 3.8 × 3.1 mm • 0.28 g
Materials: Ag plated ceramic block with tin plated brass shield

Features

- Low Loss with High Rejection
- Low ripple

Applications

- Wireless Infrastructure applications

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.

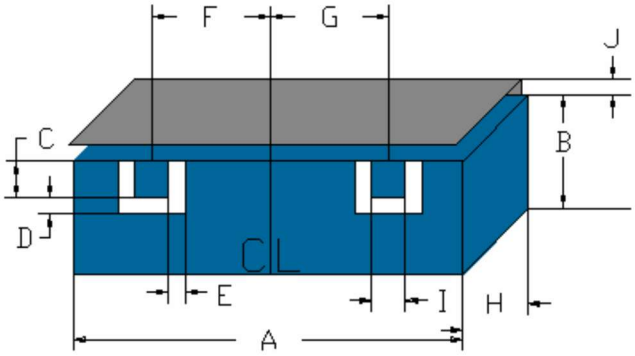
Electrical Specifications

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 (100MHz avg)	6200 - 6700		<= 1.6 dB min	<= 1.6 dB min
Passband Ripple	6200 - 6700		<= 0.5 dB max	<= 0.6 dB max
Passband Return Loss	6200 - 6700		>= 10.0 dB min	>= 10.0 dB min
Attenuation:	1 - 5730		>= 30 dB min	>= 30 dB min
	5731 - 5925		>= 20 dB min	>= 20 dB min
	7200 - 8000		>= 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.

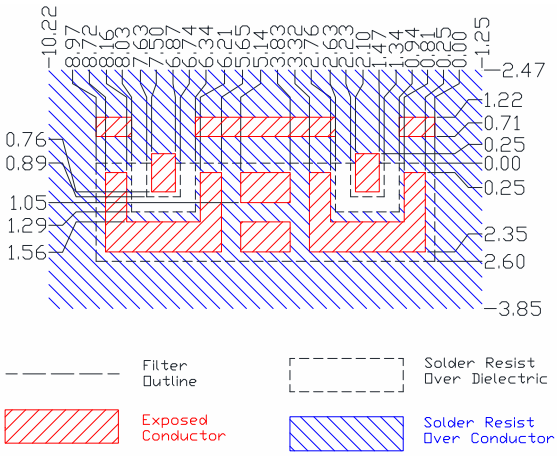
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



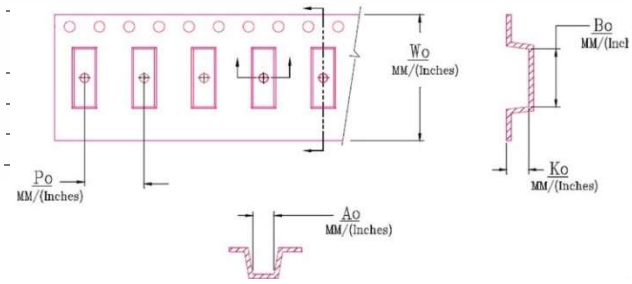
Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	8.97	max
B	2.60	0.20
C	0.89	0.13
D	0.40	0.13
E	0.40	0.13
F	2.70	0.13
G	2.70	0.13
H	3.10	max
I	0.89	0.13
J	1.00	max

PCB Layout



IMPORTANT: Please assure >=26.6mils (0.67mm) thickness of dielectric beneath the I/O Pads and surrounding clearance zone to the required ground plane.

Packaging and Marking



W_o	A_o	B_o	K_o	P_o
0.945 in 24.0 mm	0.157 in 4.00 mm	0.366 in 9.30 mm	0.132 in 3.35 mm	0.315 in 8.0 mm

Product Marking

CTS
35E
YWW

Electrical Response