

CER0836B

5470-5725MHz Bandpass Filter

Features

- Low Loss with High Rejection and Low Ripple

Applications

- Wireless Infrastructure applications

Description

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

Part Dimensions: 9.0 × 4.4 × 3.1 mm • 0.33 g
Materials: Ag plated ceramic block with shield



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	-	-	-	1.0 Watt max
Peak Input Power	-	-	-	10 Watt max

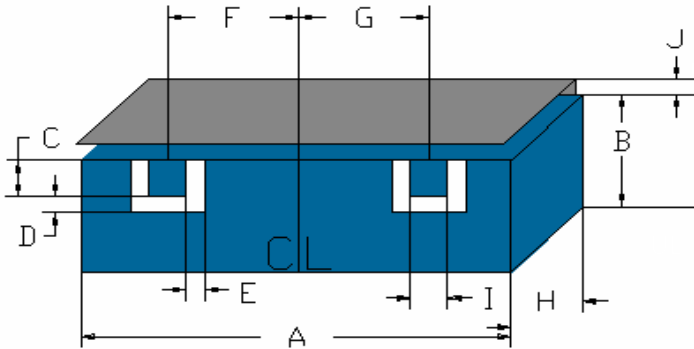
Input-Output Response

Passband Insertion Loss	5470-5725	1.3 dB	1.8 dB max	2.0 dB max
Passband Ripple	5470-5725	0.4 dB	0.9 dB max	1.0 dB max
Passband Return Loss	5470-5725	15 dB	11 dB min	11 dB min
Attenuation:	1-4900	52 dB	40 dB min	40 dB min
	4901-5000	52 dB	30 dB min	30 dB min
	6000-6299	38 dB	35 dB min	35 dB min
	6300-7000	55 dB	40 dB min	40 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.

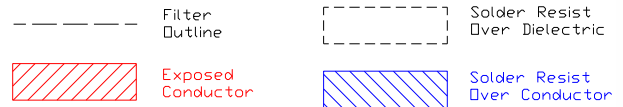
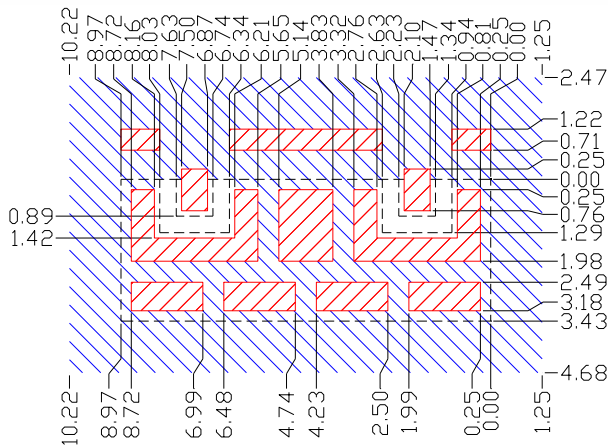
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



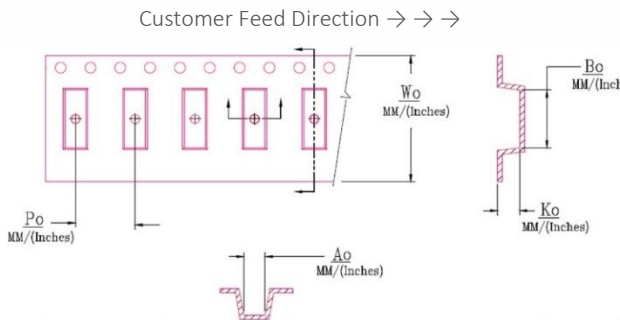
Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	8.97	max
B	3.43	max
C	0.89	0.13
D	0.40	0.13
E	0.40	0.13
F	2.70	0.25
G	2.70	0.25
H	3.10	max
I	0.89	0.13
J	0.96	max

PCB Layout



Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> CTS 36B YWW </div>
Reel Weight	kg	1.7	
Reel Quantity	ea.	1000	



W ₀	A ₀	B ₀	K ₀	P ₀
0.945 in 24.0 mm	0.177 in 4.50 mm	0.336 in 9.3 mm	0.132 in 3.35 mm	0.315 in 8.0 mm

Electrical Response

