



CER1104A

1544-1610 MHz Bandpass Filter

Features

- Low Loss and low Ripple with High Rejection

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 -55°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	1544-1610	0.5 dB	0.6 dB max	0.7 dB max
Passband Return Loss	1544-1610	15 dB	14 dB min	14 dB min
Passband Group Delay	1544-1610	5.5 ns	7 ns max	7 ns max
Group Delay Ripple (Max-Min over passband)	1544-1610	0.9 ns	1.5 ns max	1.5 ns max
Attenuation:	1350	40 dB	30 dB min	30 dB min
	1429	23 dB	20 dB min	20 dB min
	1680	11.5 dB	10 dB min	10 dB min
	1900	36 dB	32 dB min	32 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.

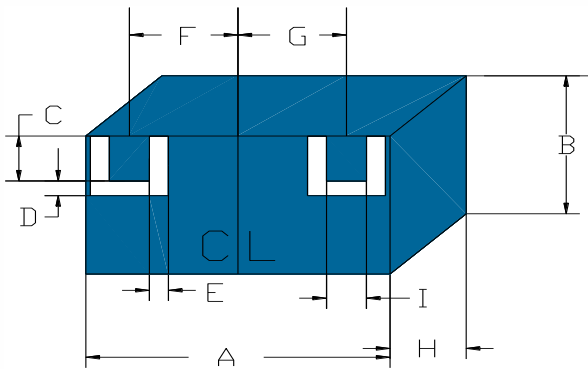
Specification Allowance

Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB



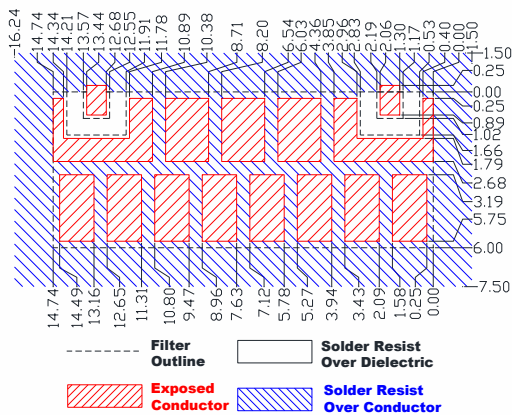
Part Dimensions: 14.8 × 6.0 × 6.0 mm • 2.4 g
Materials: Ag plated ceramic block

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	14.74	max
B	6.00	max
C	1.02	0.13
D	0.64	0.13
E	0.64	0.13
F	5.67	0.13
G	5.67	0.13
H	6.00	max
I	1.02	0.13

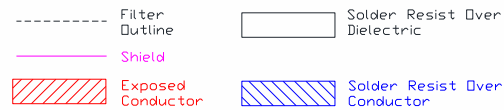
PCB Layout



IMPORTANT: Please assure ≥ 20 mils (0.5mm) thickness of dielectric beneath the I/O Pads and the surrounding clearance zone down to the required ground plane.

Please assure sufficient ground vias between the top metal ground plane and the primary ground plane.

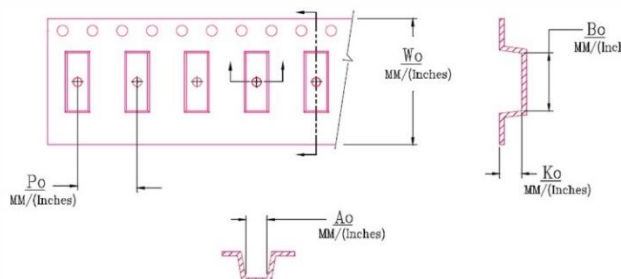
Recommended solder: 4-6 mils of SAC305 with reflow including 120s of soak at 217°C, and up to 30 sec peak at



Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	CTS
Reel Weight	kg	???	1104
Reel Quantity	ea.	500	YWW

Customer Feed Direction → → →



W ₀	A ₀	B ₀	K ₀	P ₀
0.945 in 24.0 mm	0.242 in 6.15 mm	0.591 in 15.0 mm	0.244 in 6.20 mm	0.472 in 12.0 mm

Electrical Response

