CER1207A

1610-1660 MHz Bandpass Filter

Part Dimensions: 10.0 × 7.1 × 4.0 mm • 1.0 g
Materials: Ag plated ceramic block with fused-tin plated brass shield

Features

- Excellent rejections
- Low Loss
- Low Ripple

Applications

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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.

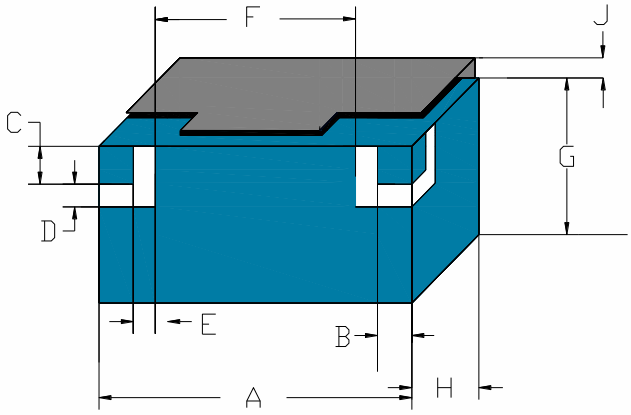
Electrical Specifications

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	1610-1660	2.5 dB	2.8 dB max	3.0 dB max
Passband Ripple	1610-1660	1.4 dB	1.8 dB max	2.0 dB max
Passband Return Loss	1610-1660	14 dB	12 dB min	12 dB min
Attenuation:	1560	43 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.

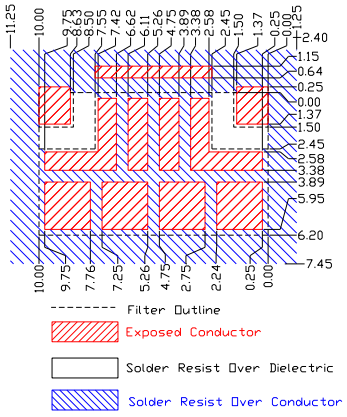
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	10.00	max
B	1.50	max
C	1.50	0.13
D	0.95	0.13
E	0.95	0.13
F	5.10	0.13
G	6.20	max
H	4.00	max
J	0.76	0.13

PCB Layout



IMPORTANT: Please assure >=20mils (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 241°C.

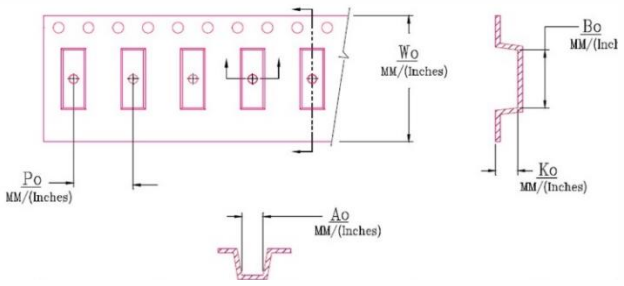
Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	3.2
Reel Quantity	ea.	500

Product Marking

CTS
1207
YWW

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
0.945 in 24.0 mm	0.319 in 8.1 mm	0.406 in 10.3 mm	0.165 in 4.2 mm	0.472 in 12.0 mm

Electrical Response