CER1202A

902-928 MHz Bandpass Filter

Part Dimensions: 10.0 × 8.8 × 4.1 mm • 1.5 g
Materials: Ag plated ceramic block with fused-tin plated brass shield

Features

- Excellent rejections
- Low Loss
- Low Ripple

Applications

- Developed for use in 900MHz ISM 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.

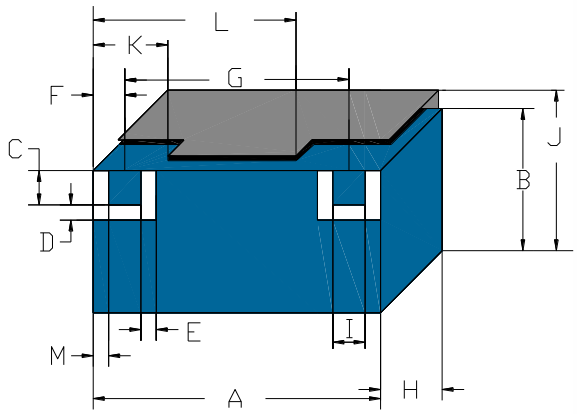
Electrical Specifications

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	902-928	2.4 dB	2.6 dB max	2.8 dB max
Passband Ripple	902-928	0.8 dB	1.3 dB max	1.4 dB max
Passband Return Loss	902-928	14 dB	12 dB min	12 dB min
Attenuation:	1-849	45 dB	30 dB min	30 dB min
	1100-1600	35 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.

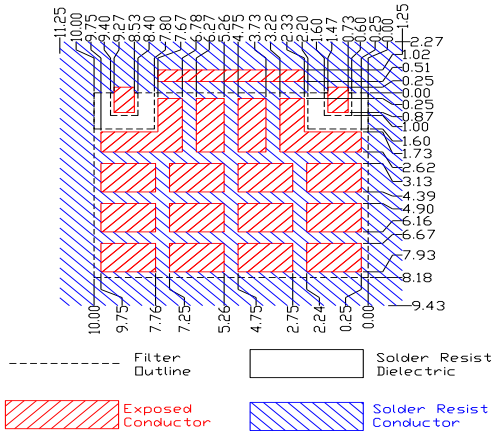
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	10.00	max
B	7.80	max
C	1.00	0.13
D	0.60	0.13
E	0.60	0.13
F	1.20	0.13
G	7.80	0.13
H	4.10	max
I	1.00	0.13
J	8.80	max
K	2.54	0.20
L	7.40	0.20
M	0.55	0.20

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.

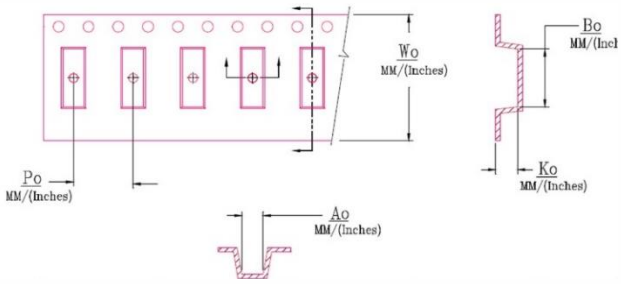
Packaging and Marking

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

Product Marking

CTS
1202
YWW

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
0.945 in 24.0 mm	0.382 in 9.7 mm	0.406 in 10.3 mm	0.165 in 4.2 mm	0.623 in 16.0 mm

Electrical Response