CER1115A

1626-1676 MHz Bandpass Filter

Features

- Low Loss and low Ripple with High Rejection

Applications

- Primarily for InMarSat transmitter applications

Part Dimensions: 16.5 × 8.1 × 4.9 mm • 2.5 g
Materials: Ag plated ceramic block with tin plated brass shield

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	-	-	-	3.0 Watt max
Peak Input Power	-	-	-	20 Watt max (at <5Kft) GOAL: 15W at 40Kft
Input-Output Response				
Passband Insertion Loss (single-point)	1626-1675	2.4 dB	2.6 dB max	2.7 dB max
Passband Return Loss	1626-1675		14 dB min	14 dB min
Attenuation:	1576		40 dB min	40 dB min
	1605		28 dB min	25 dB min

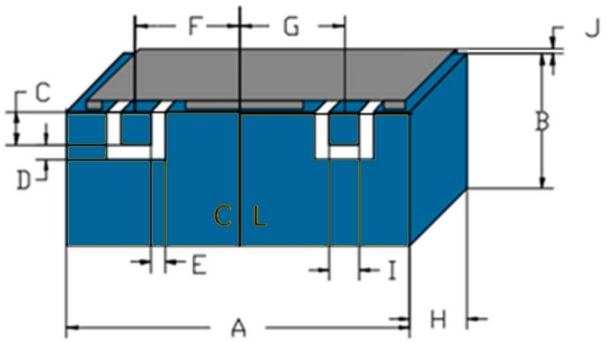
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

CER1115A

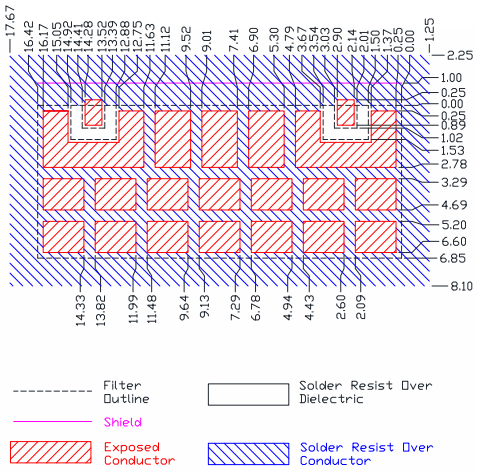
1626-1676 MHz Bandpass Filter

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	16.42	max
B	6.85	max
C	1.02	0.13
D	0.51	0.13
E	0.51	0.13
F	5.69	0.13
G	5.69	0.13
H	4.85	max
I	1.02	0.13
J	1.00	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.

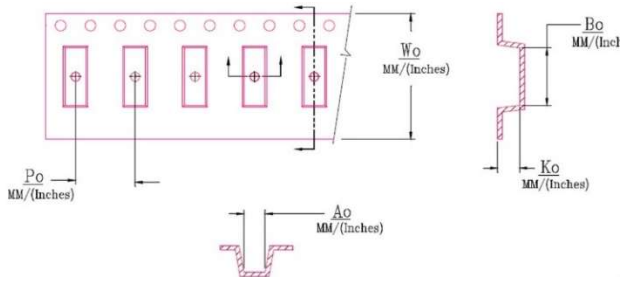
Packaging and Marking

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

Product Marking

CTS
1115
YWW

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
1.260 in	0.323 in	0.657 in	0.201 in	0.630 in
32.0 mm	8.2 mm	16.7 mm	5.1 mm	16.0 mm

Electrical Response