

RoHS Compliant



CER1120A

1525-1609 MHz Bandpass Filter

Features

- Variant of CER0934A with integrated shield added and lower IL at 1609MHz while relaxing rejection at 1626.5MHz
- Low Loss and low Ripple with High Rejection



Specialized L1 GPS filter with close-in rejection

Part Dimensions: $16.5\times8.1\times4.9~\text{mm}$ • 2.5~g Materials: Ag plated ceramic block with fused-tin

plated brass shield



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	1525-1609	2.5 dB	2.7 dB max	2.9 dB max
Passband Ripple	1525-1609	2.0 dB	2.3 dB max	2.5 dB max
Passband Return Loss	1525-1609	14 dB	12 dB min	12 dB min
Attenuation:	1626.5	30 dB	29 dB min	27 dB min

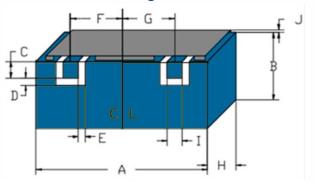
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances. Specification Allowance Insertion Loss 0.1 dB Return Loss 1.0 dB Attenuation 1.0 dB





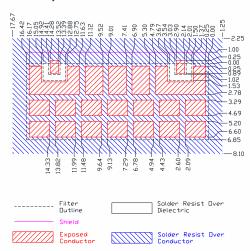
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Mechanical Drawing



Nominal Tolerance Dim. (mm) (±mm or Max) Α 16.42 max В 6.85 max C 1.02 0.13 D 0.51 0.13 Ε 0.51 0.13 F 5.69 0.13 G 5.69 0.13 Н 4.85 max 1 1.02 0.13 J 1.00 0.20

PCB Layout



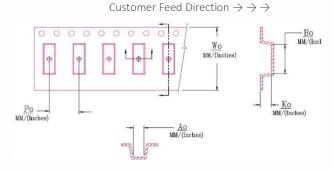
IMPORTANT: Please assure >=20mils (0.5mm) thickness of dielectric beneath the I/O Pads <u>and</u> the surrounding clearance zone down to the required ground plane.

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.	Product Ma	rking
Reel Diameter	mm	330	CTS	
Reel Weight	kg	3.2	1120	
Reel Quantity	ea.	500	YWW	
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W_{o}	A_{o}	Bo	Ko	Po
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

