



CER1106B

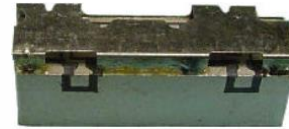
1530-1610 MHz Bandpass Filter

Features

- Low Loss and low Ripple with High Rejection

Applications

- Specialized L1 GPS filter with close-in rejection



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.

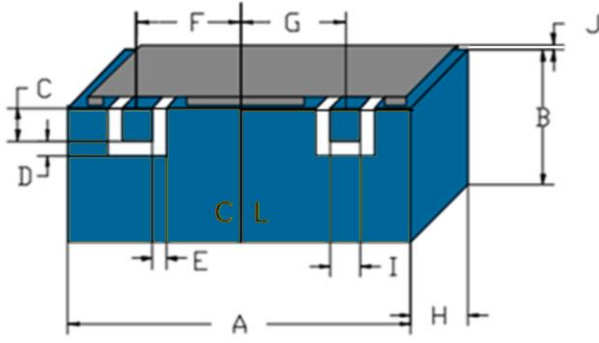
Electrical Specifications

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	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max
Input-Output Response				
Passband Insertion Loss	1530-1544-1610	3.7 dB	3.8 dB max	4.1 dB max
Passband Return Loss	1530-1544-1610	15 dB	14 dB min	13 dB min
Group Delay over Passband	1530-1544-1610	42 ns	44 ns max	45 ns max
Group Delay Ripple (Max-Min over passband)	1530-1544-1610	24 ns	32 ns max	32 ns max
Attenuation:	1350	45 dB	40 dB min	40 dB min
	1429	42 dB	40 dB min	40 dB min
	1504-1518	30-31 dB	25 dB min	25 dB min
	1522-1536	13-18 dB min	10-17 dB min	10-17 dB min
	1626	18-22 dB	16-25 dB min	16-25 dB min
	1680	39-41 dB	37-38 dB min	37-38 dB min
	1900	49 dB	40 dB min	40 dB min

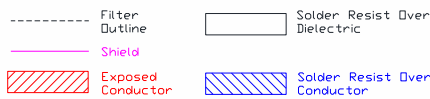
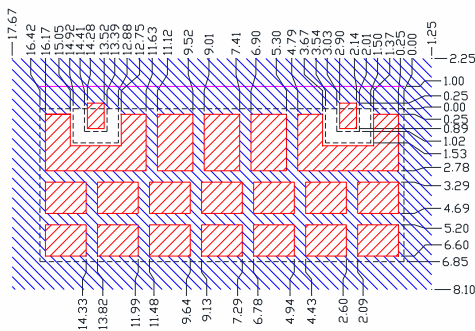
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

Mechanical Drawing



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.

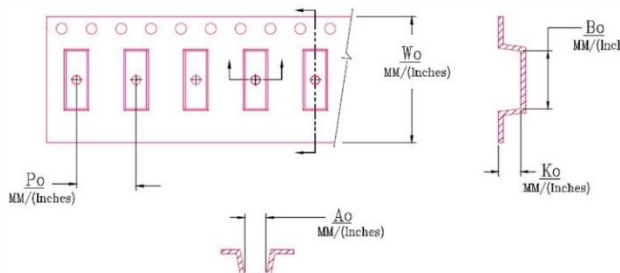
Please assure sufficient ground vias between the top metal ground plane and the primary ground plane.

Recommended solder: 4-6 mils of SAC305 with reflow including 120s of soak at 217°C, and up to 30 sec peak at 241°C.

Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	<div>CTS</div> <div>106B</div> <div>YWW</div>
Reel Weight	kg	???	
Reel Quantity	ea.	500	

Customer Feed Direction → → →



W_0	A_0	B_0	K_0	P_0
1.260 in 32.0 mm	0.323 in 8.2 mm	0.657 in 16.7 mm	0.201 in 5.1 mm	0.630 in 16.0 mm

Electrical Response

