CER1135A - PRELIMINARY

5727-5821.5 MHz Bandpass Filter

Features

- Custom performance

Applications

- Specialized radio filter

Part Dimensions: 15.5 × 3.7? × 4.3 mm • 4.7g
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	5727-5821.5	4.8 dB	5.3 dB max	5.5 dB max
Passband Return Loss	1166-1250	15 dB	12 dB min	12 dB min
Attenuation:	1 - 5650		40 dB min	40 dB min
	5694	19 dB	17 dB min	15 dB min
	5875	16 dB	14 dB min	12 dB min
	5960-6200	48 dB	40 dB min	40 dB min

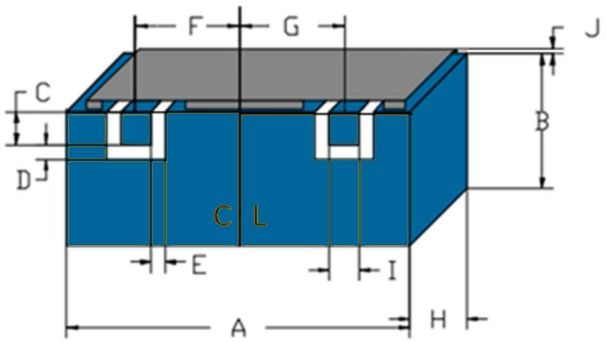
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

Preliminary - CER1135A

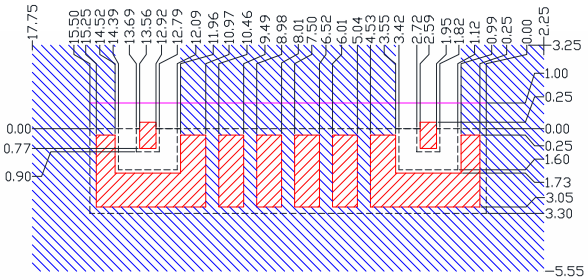
5727-5821.5 MHz Bandpass Filter

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	15.50	max
B	3.30	max
C	0.90	0.13
D	0.80	0.13
E	0.80	0.13
F	5.485	0.13
G	5.485	0.13
H	4.30	max
I	0.90	0.13
J	1.00	max

PCB Layout



SHield
Filter Outline
Exposed Conductor
Solder Resist Over Dielectric
Solder Resist Over Conductor

IMPORTANT: Please assure >=30mils (0.75mm) 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.

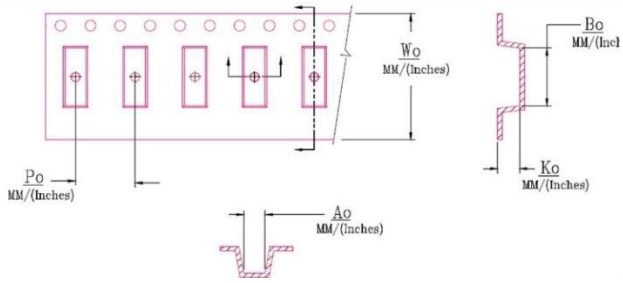
Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	5.5?
Reel Quantity	ea.	500

Product Marking

CTS
1135
YWW

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
0.945 in	0.140 in	0.622 in	0.181 in	0.315 in
24.0 mm	3.55 mm	15.8 mm	4.60 mm	8.0 mm

Electrical Response