





CER1085A - PRELIMINARY 5540-5680 MHz Bandpass Filter

Features

- Low Loss with High Rejection
- Low ripple

Applications

• Wireless Infrastructure applications



Part Dimensions: $15.5 \times 4.1 \times 4.3 \text{ mm} \bullet \text{TBD g}$ 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 -40°C to +105°C
Nominal Impedance	-	50 ohms	-	-
Average Input Power	-	-	-	2.0 Watt max
Peak Input Power	-	-	-	20 Watt max
Input-Output Response				
Passband Insertion Loss (single point)	5540 - 5680	1.8 dB	2.1 dB min	2.3 dB min
Passband Ripple	5540 - 5680	0.6 dB	0.8 dB min	0.9 dB min
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	5540 - 5680	12 dB	10 dB min	10 dB min
Passband Return Loss	5540 - 5680 1 - 5240	12 dB 37 dB	10 dB min 34 dB min	10 dB min 34 dB min
Passband Return Loss				
Passband Return Loss Attenuation:				

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

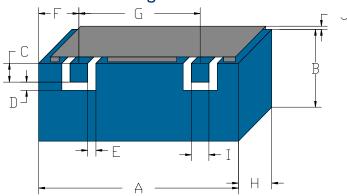
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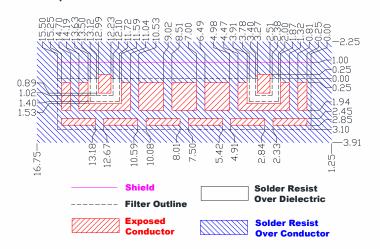
5540-5680 MHz Bandpass Filter

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
Α	15.50	max
В	3.10	max
С	1.02	0.13
D	0.38	0.13
Е	0.38	0.13
F	2.89	0.13
G	9.72	0.13
Н	4.30	max
I	1.02	0.13
J	1.00	max

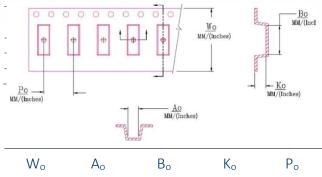
PCB Layout



IMPORTANT: Please assure >=29.5mils (0.75mm) thickness of dielectric beneath the I/O Pads <u>and</u> the surrounding clearance zone down to the required ground plane.

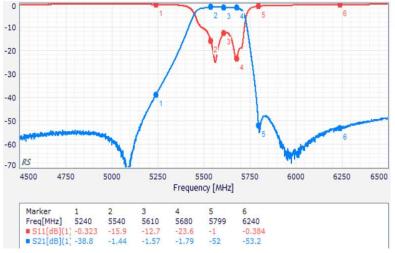
Please assure sufficient ground vias between the top metal ground plane and the primary ground plane. Recommended solder: 4-6 mils of SAC305 with reflow including 120s of soak at 217°C, and up to 30 sec peak at 241°C.

Packaging and Marking



W_{o}	A _o	Во	Ko	P_0
0.945 in	0.189 in	0.366 in	0.132 in	0.315 in
24.0 mm	4.8 mm	9.30 mm	3.35 mm	8.0 mm

Electrical Response



Product Marking

CTS 1085 YWW

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