

UPB350A

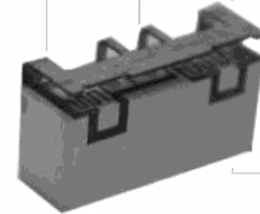
3.3-3.8 GHz UPB Series Bandpass Filter

Features

- Companion to UPB360A
- Low Loss and low ripple with High Rejection
- Universal footprint across family for all TDD bands

Applications

- Wireless Infrastructure applications



Part Dimensions: 10.3 × 4.7 × 4.1 mm • 0.6 g
Materials: Ag plated ceramic block with tin plated brass shield

Description

Surface mount ceramic bandpass filter supports a universal footprint across all TDD frequency bands enabling the use of a common system PCB. Superior rejection, insertion loss, reliability, as well as both peak and average power handling compared other bandpass filter technologies.

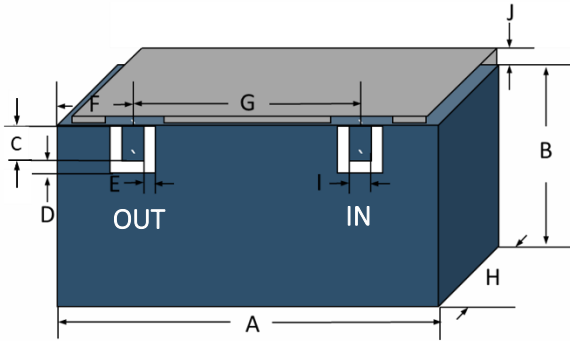
Electrical Specifications

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +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 (20 MHz avg)	3300-3800	0.9 dB	1.1 dB max	1.2 dB max
Passband Insertion Loss (single point)	3300-3800	1.1 dB	1.3 dB max	1.5 dB max
Passband Ripple	3300-3800	0.6 dB	0.7 dB	0.9 dB max
Passband Return Loss	3300-3800	14 dB	11 dB min	11 dB min
Attenuation:	1-2700	46 dB	43 dB min	43 dB min
	4900-5950	44 dB	37 dB min	37 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.

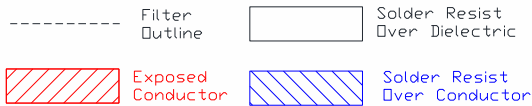
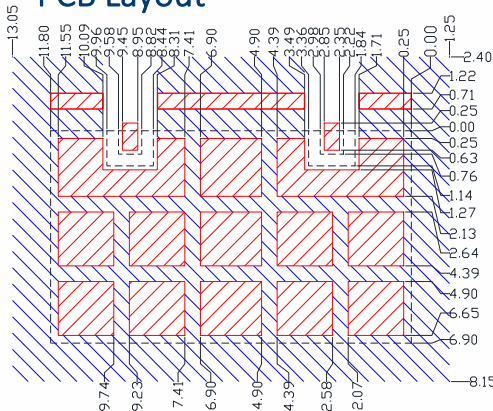
<u>Specification Allowance</u>	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	10.10	0.20
B	3.20	0.30
C	0.76	0.13
D	0.38	0.13
E	0.38	0.13
F	1.80	0.13
G	6.60	0.13
H	4.10	max
I	0.76	0.13
J	1.00	0.20

PCB Layout



IMPORTANT: Please assure ≥ 30 mils (0.75mm) thickness of dielectric beneath the I/O Pads and the surrounding clearance zone down to the required ground plane.

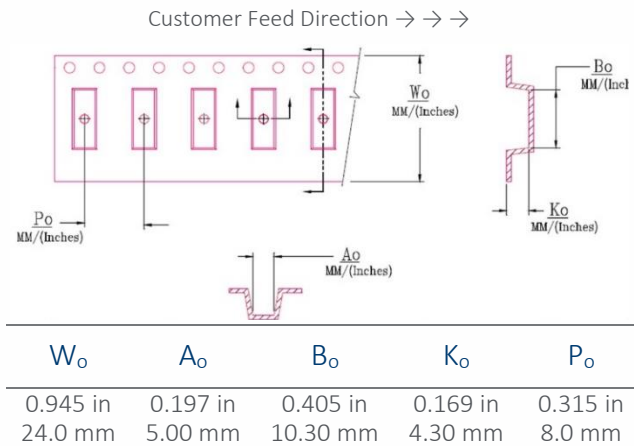
Please assure sufficient ground vias between the top metal ground plane and the primary ground plane.

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.

NOTE: A width of 9.50mm is necessary to support frequencies as low as 1885MHz for Band 39. If only higher frequency TDD bands are supported, then this smaller space can be allocated on the layout.

Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> CTS 350 YWW </div>
Reel Weight	kg	5.5	
Reel Quantity	ea.	500	



Electrical Response

