

UPB041A - PRELIMINARY

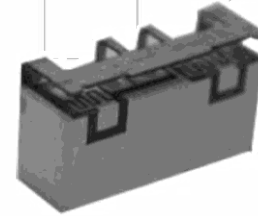
Band 41 UPB Series TDD Bandpass Filter

Features

- Low Loss with High Rejection
- Low ripple
- Universal footprint across family for all TDD bands

Applications

- Wireless Infrastructure applications
- High-performance carrier-grade single-band TDD Pico-cell basestations for 0.25-0.5W at the antenna port.



Part Dimensions: 10.2 × 7.6 × 4.0 mm • 1.2 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.

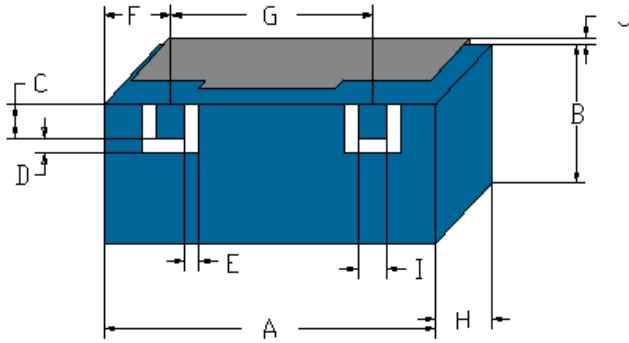
Electrical Specifications

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	2496-2690	1.2 dB	1.7 dB max	2.0 dB max
Passband Ripple	2496-2690	0.2 dB	1.0 dB max	1.0 dB max
Passband Return Loss	2496-2690	13 dB	10 dB min	10 dB min
Attenuation:	0.1-2300	42 dB	40 dB min	40 dB min
	2900-4000	42 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.

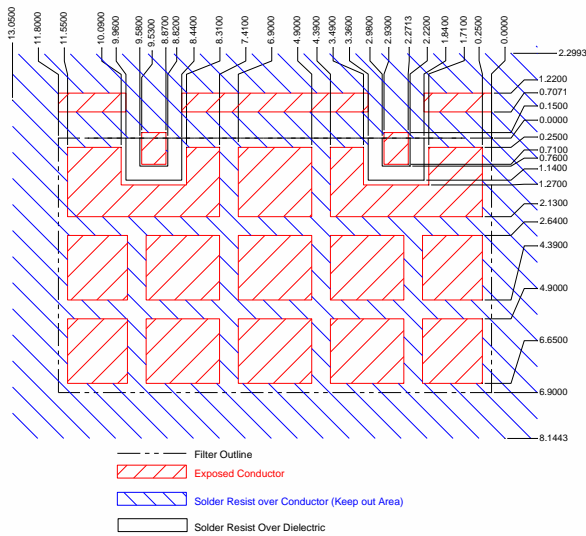
<u>Specification Allowance</u>	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	10.20	max
B	6.60	max
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	4.00	max
I	0.76	0.13
J	1.00	max

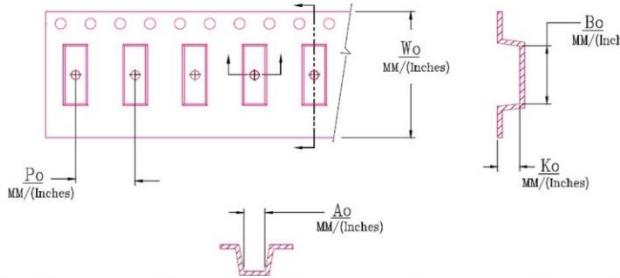
PCB Layout



Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> CTS 041 YWW </div>
Reel Weight	kg	5.5	
Reel Quantity	ea.	500	

Customer Feed Direction → → →



W_0	A_0	B_0	K_0	P_0
0.945 in	0.319 in	0.406 in	0.165 in	0.472 in
24.0 mm	8.10 mm	10.30 mm	4.2 mm	12.0 mm

Electrical Response

