



USB342A

3.400-3.450GHz USB Series TDD BPF

Features

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

Applications

- Wireless Infrastructure applications
- High-performance carrier-grade TDD Pico-cells.



Part Dimensions: 25.9 x 7.0 x 6.6 mm • 3.4 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 to other bandpass filter technologies.

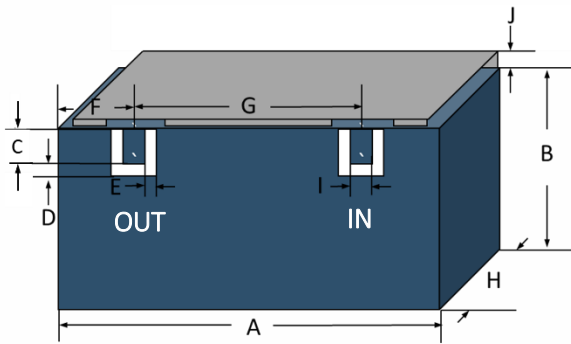
Electrical Specifications

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)	3400-3450	2.2 dB	2.8 dB max	3.0 dB max
	3400-3435	1.7 dB	2.3 dB max	2.5 dB max
Passband Ripple	3400-3450	1.5 dB	1.8 dB max	2.0 dB max
	3400-3435	0.5 dB	1.0 dB max	1.0 dB max
Passband Return Loss	3400-3450	13 dB	12 dB max	12 dB min
Attenuation:	1-2619	60 dB	55 dB min	55 dB min
Attenuation:	2620-2700	57 dB	52 dB min	52 dB min
	3500-3800	52 dB	50 dB min	50 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.

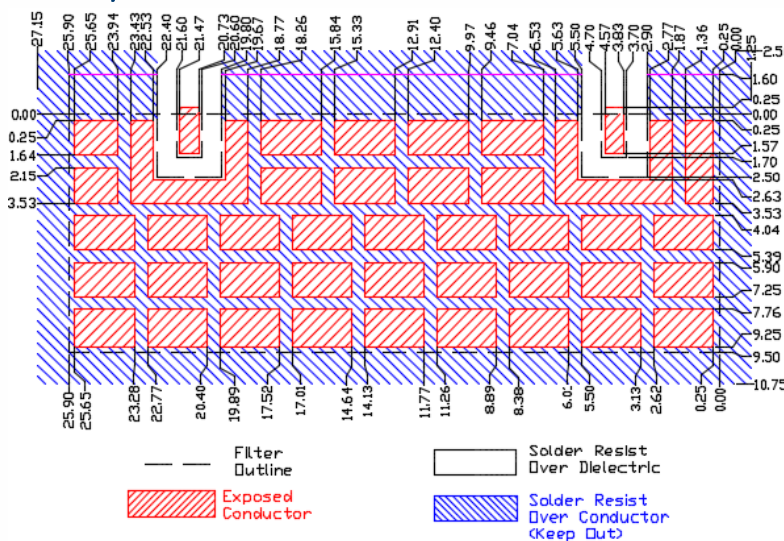
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	25.40	0.30
B	5.40	0.30
C	1.70	0.13
D	0.80	0.13
E	0.80	0.13
F	4.20	0.13
G	16.90	0.13
H	6.40	0.20
I	1.00	0.13
J	1.10	0.20

PCB Layout

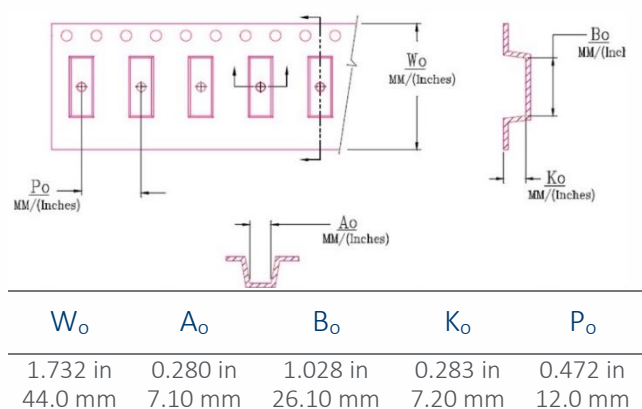


NOTE: The width of 9.50mm is necessary to support frequencies as low as 1885MHz for Band 39. If only higher frequency TDD bands are supported, then a smaller space can be allocated on the layout.

Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	CTS
Reel Weight	kg	5.5	342
Reel Quantity	ea.	500	YWW

Customer Feed Direction → → →



Electrical Response

