

MMB350A - PRELIMINARY

3.3-3.8GHz MMB Series TDD Bandpass Filter

Features

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

Applications

- Wireless Infrastructure applications
- Massive MIMO and Active Antenna Systems
- High-performance carrier-grade TDD systems



Part Dimensions: **ESTIMATE 40 × 8 × 9.3 mm • <10 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	-	-	-	10.0 Watt max
Peak Input Power	-	-	-	100 Watt max

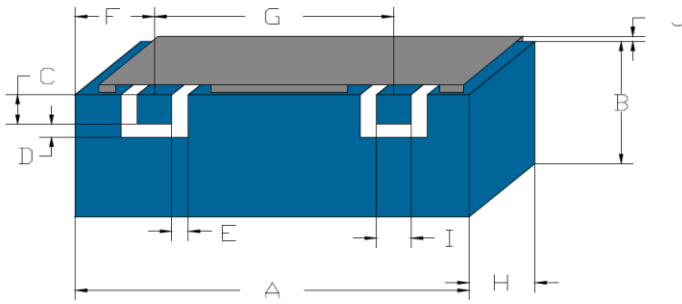
Input-Output Response

Passband Insertion Loss (100 MHz avg)	3300-3800			1.4-1.5 dB max
Passband Insertion Loss (20 MHz avg)	3300-3800			1.4-1.5 dB max
Passband Ripple	3300-3800			1.1-1.2 dB max
Passband Return Loss	3300-3800			12 dB min
Attenuation:	1-3100			50 dB min
	3101-3240			27-30 dB min
	3241-3260			15-18 dB min
	3840-3859			15-18 dB min
	3860-4099			27-30 dB min
	4100-4999			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.

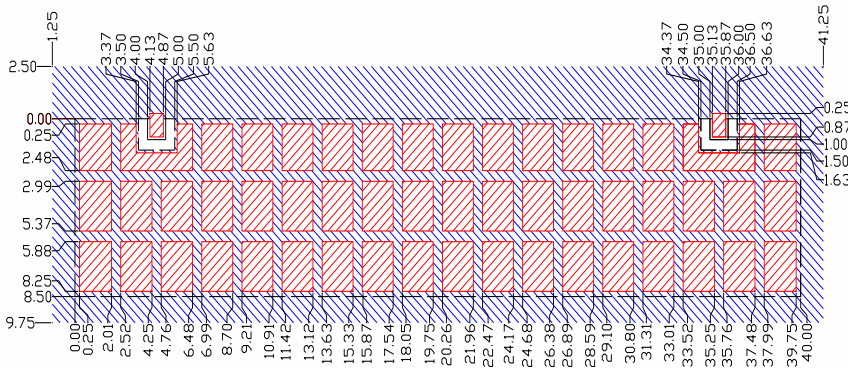
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

Mechanical Drawing



Dim.	Nominal (mm)	Tolerance (±mm or Max)
A	40.0	max
B	4.8?	max
C	1.0	0.13
D	0.5	0.13
E	0.5	0.13
F	4.5	0.25
G	31.0	0.13
H	9.3	max
I	1.0	0.13
J	1.4	0.2

PCB Layout



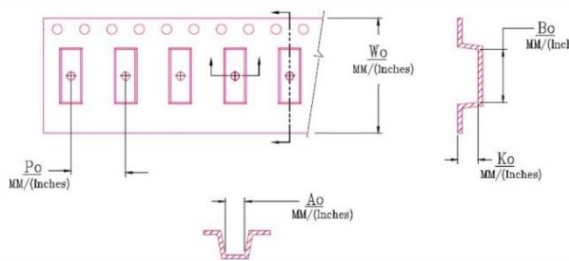
NOTE: The width of 8.50mm is necessary to support frequencies as low as 1885MHz for Band 39. If only higher frequency TDD bands are supported, then a smaller space can be allocated on the layout.



Packaging and Marking

Dimension	Units	Spec.	Product Marking
Reel Diameter	mm	330	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> CTS 350 YWW </div>
Reel Weight	kg		
Reel Quantity	ea.	250	

Customer Feed Direction → → →



W_o	A_o	B_o	K_o	P_o
2.205 in	0.256 in	1.587 in	0.378 in	0.630 in
56.0 mm	6.5 mm	40.3 mm	9.6 mm	16.0 mm

Electrical Response

