

# MMB362A - PRELIMINARY

## Band 48 (3.55-3.7GHz) MMB Series TDD BPF

### Features

- Meets FCC CBRS emission requirements for 1.0W@Ant systems
- 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: 40.0 × 6.4 × 9.3 mm • 6.3 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	-	-	-	8.0 Watt max
Peak Input Power	-	-	-	80 Watt max

#### Input-Output Response

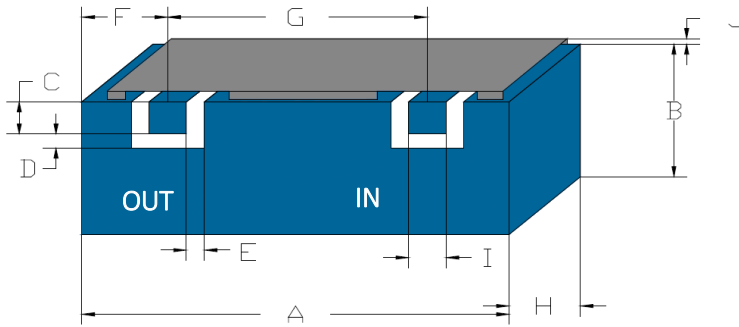
Passband Insertion Loss (10 MHz avg)	3550-3700	1.8 dB	2.0 dB max	2.1 dB max
Passband Ripple (over 10 MHz)	3550-3700	0.7 dB	1.0 dB max	1.0 dB max
Passband Return Loss	3550-3700	14 dB	13 dB min	12 dB min
Attenuation:	1-2690	67 dB	65 dB min	65 dB min
	2690-3300	65 dB	40 dB min	40 dB min
	3300-3530	17 dB	15 dB min	14 dB min
	3720-4200	16 dB	15 dB min	14 dB min
	4200-4900	56 dB	52 dB min	52 dB min
	4900-5850	50 dB	45 dB min	45 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

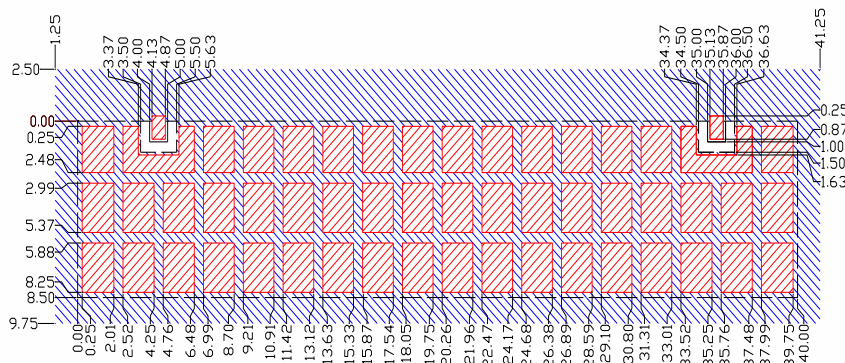
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

## 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



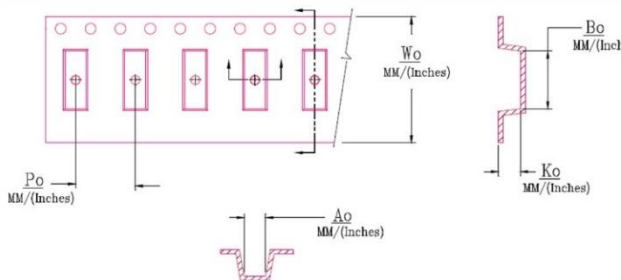
Combined 40mm & 50mm universal footprint PCB layout is also available.

## Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	
Reel Quantity	ea.	

## Product Marking

CTS  
362  
YWW



W <sub>0</sub>	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P <sub>0</sub>
2.205 in 56.0 mm	0.256 in 6.5 mm	1.587 in 40.3 mm	0.378 in 9.6 mm	0.630 in 16.0 mm

## Electrical Response

