



#### Connect

# MMB550A - PRELIMINARY 5.15-5.85GHz MMB Series TDD BPF

#### **Features**

- Appropriate for 5GHz WiFi, LTE-U LAA, etc.
- Low Loss with High Rejection
- Universal footprint across family for all TDD bands

#### **Applications**

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



#### 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 (20 MHz avg)	5150-5850			1.0 dB max
Passband Return Loss	5150-5850			12 dB min
Attenuation:	1-4700			55 dB min
	4700-4900			30 dB min
	6300-7200			30 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 A	Allowance
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Attenuation	1.0 dB

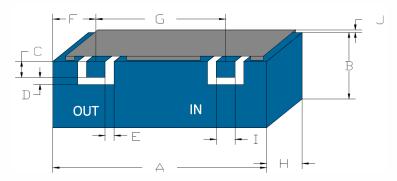
2017-12-22 Rev. B WWW.ctscorp.com Page 1 of 2



#### **PRELIMINARY - MMB550A**

5.15-5.85GHz MMB Series TDD BPF

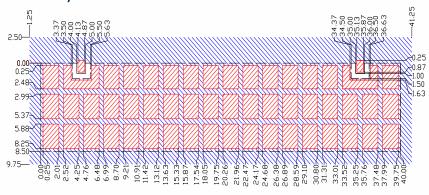
#### **Mechanical Drawing**



Dim.	Nominal (mm)	Tolerance (±mm or Max)
Α	39.8	0.30
В	2.4	0.20
С	1.0	0.13
D	0.5	0.13
Е	0.5	0.13
F	4.4	0.25
G	31.0	0.13
Н	9.0	0.20
I	1.0	0.13
J	1.5	0.20

#### **PCB Layout**

Dimension



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

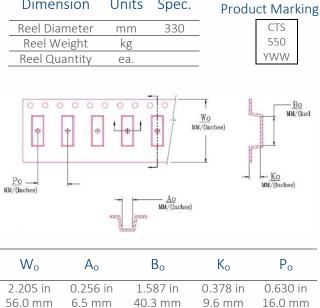


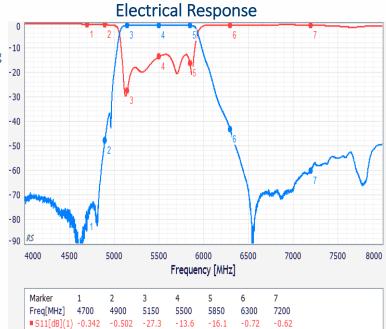
## Solder resist over Dielectric

### Packaging and Marking

Spec.

Units





■ S21[dB](1) -78.9

-47.6

-0.788

-0.789

-0.896

-43.1