## MMB475A - Preliminary 4.6-4.9Hz MMB 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.


## 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 <br> $(\mathrm{MHz})$ | Typical <br> at $25^{\circ} \mathrm{C}$ | Spec. <br> at $25^{\circ} \mathrm{C}$ | Spec. over <br> $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| :--- | :---: | :---: | :---: | :---: |
| Nominal Impedance | - | 50 ohms | - | - |
| Average Input Power | - | - | - | 20.0 Watt max TBC |

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 $\quad 1.0 \mathrm{~dB}$
Attenuation $\quad 1.0 \mathrm{~dB}$

## Mechanical Drawing



## PCB Layout



## Packaging and Marking

| Dimension | Units | Spec. |
| :---: | :---: | :---: |
| Reel Diameter | mm | 330 |
| Reel Weight | kg |  |
| Reel Quantity | ea. | 250 |



| $W_{\circ}$ | $A_{\circ}$ | $B_{\circ}$ | $K_{\circ}$ | $P_{\circ}$ |
| :---: | :---: | :---: | :---: | :---: |
| 2.205 in | 0.213 in | 1.587 in | 0.378 in | 0.630 in |
| 56.0 mm | 5.4 mm | 40.3 mm | 9.6 mm | 16.0 mm |

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

IMPORTANT: Please assure $>=30 \mathrm{mils}(0.75 \mathrm{~mm})$ thickness of dielectric beneath the I/O Pads and the surrounding clearance zone down to the ground plane.
Please assure sufficient ground vias between the top metal ground plane and the primary ground plane.
Recommended solder: 6 mils of SAC305 with reflow including 120 s of soak at $217^{\circ} \mathrm{C}$, and up to 30 sec peak at $241^{\circ} \mathrm{C}$.

Electrical Response


