



Part Dimensions: 6.5 × 5.1 × 1.8 mm • 0.1 g



# **XLF0500A**

## <5.0 GHz "Clean-up" Lowpass Filter

#### **Features**

- High-power handling in small size
- Low Insertion Loss and Ripple.
- Provides excellent 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> harmonic rejection

#### **Applications**

Wireless Infrastructure applications

#### Description

Low-pass filter with high power handling engineered to provide a complete system solution for harmonic suppression need in a single surface-mount component.

#### **Electrical Specifications**

| Parameter                                     | Frequency<br>(MHz) | Typical<br>at 25°C | Spec.<br>at 25°C | Spec. over -40°C to +85°C |
|---|--------------------|--------------------|------------------|---------------------------|
| Nominal Impedance                             | -                  | 50 ohms            | -                | -                         |
| Average Input Power per port                  | -                  | -                  | -                | 6.0 Watt max              |
| Peak Input Power per port                     | -                  | -                  | -                | 60 Watt max               |
| Input-Output Response Passband Insertion Loss | 4400 - 5000        |                    |                  | 0.65 dB max               |
| Passband Return Loss                          | 4400 - 5000        |                    |                  | 16 dB min                 |
| Attenuation:                                  | 8800 - 8999        |                    |                  | 30 dB min                 |
| (2 <sup>nd</sup> & 3 <sup>rd</sup> harmonics) | 9000 – 15000       |                    |                  | 40 dB min                 |
| (4 <sup>th</sup> & 5 <sup>th</sup> harmonics) | 17600 - 25000      |                    |                  | 15 dB min                 |

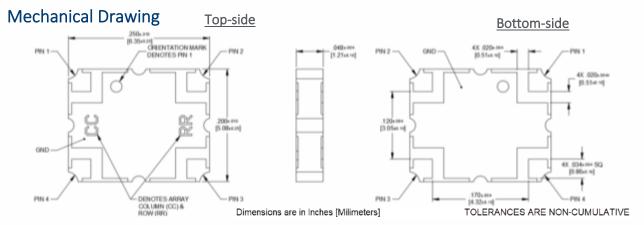
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

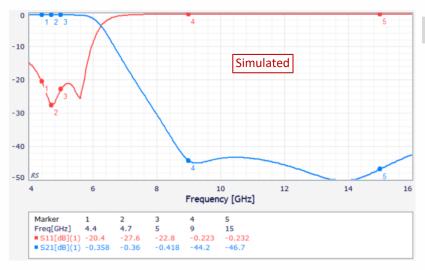
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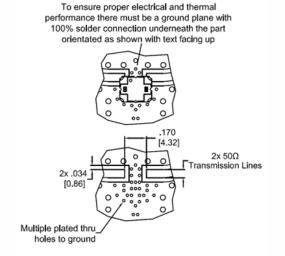


#### **Electrical Response**



### Pin Assignments And PCB Layout

| Pin 1  | Pin 2  | Pin 3  | Pin 4  |
|--------|--------|--------|--------|
| Input  | Output | Ground | Ground |
| Output | Input  | Ground | Ground |



Dimensions are in Inches [Millimeters]

#### **Ordering Information**

| Model    | Packaging   |  |  |
|----------|-------------|--|--|
| XLF0500A | Tape & Reel |  |  |

| Dimension     | Units | Spec. |
|---------------|-------|-------|
| Reel Diameter | mm    | 330   |
| Reel Weight   | kg    |       |
| Reel Quantity | ea.   | 2000  |
|               |       |       |

