

MSL-1 ROHS Compliant

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



XLF0420A

<4.2 GHz "Clean-up" Lowpass Filter

Features

- High-power handling in small size
- Low Insertion Loss and Ripple.
- Provides excellent 2nd, 3rd, 4th and 5th 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 (MHz)	Typical at 25°C	Spec. 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	3300 - 4200			0.65 dB max
Passband Return Loss	3300 - 4200			16 dB min
Attenuation:	6600 - 7599			24 dB min
(2 nd & 3 rd harmonics)	7600 – 12600			40 dB min
(4 th & 5 th harmonics)	13200 - 21000			15 dB min Goal: 20 dB

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.

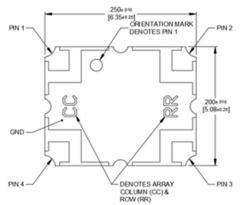
Specification Allowance Insertion Loss 0.1 dB Return Loss 1.0 dB Attenuation 1.0 dB

2025-08-12 Rev. A WWW.ctscorp.com Page 1 of 2



Mechanical Drawing

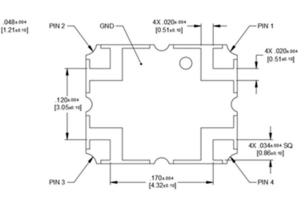
Top-side



Dimensions are in Inches [Milimeters]

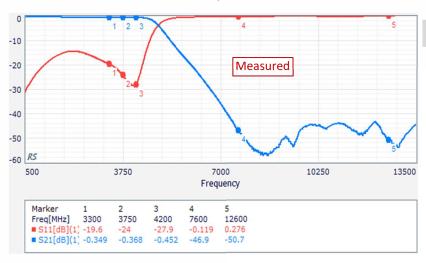
Bottom-side

.048 . 004



TOLERANCES ARE NON-CUMULATIVE

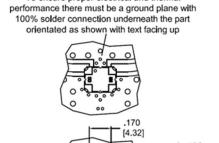
Electrical Response

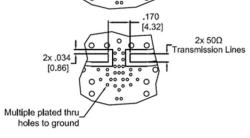


Pin Assignments And PCB Layout

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

To ensure proper electrical and thermal





Dimensions are in Inches [Millimeters]

Ordering Information

Model	Packaging	
XLF420A	Tape & Reel	

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

