

RLF0200A - PRELIMINARY

<2.0GHz “Rooftop” Lowpass Filter

Features

- Superior power handling and reliability
- Provides rejection over 2.4-6.0GHz for use with CMB, CMD, USD, USB, and UMD.
- Directly solders to PCB

Applications

- Wireless Infrastructure applications



Part Dimensions: 14 × 9 × 8 mm • 5 g (estimate)

Description

With low IL, provides additional attenuations to assure compatibility with high-frequency bands.

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	-	-	-	6 Watt max
Peak Input Power	-	-	-	60 Watt max

Input-Output Response

Passband Insertion Loss (10 MHz avg)	1850-2000	0.4 dB (est)
Passband Return Loss	1850-2000	16 dB min
Attenuation:	2550-2620	25 dB min
	2620-6000	45 dB min
	6000-12,750	10 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



PRELIMINARY - RLF0200A

<2.0GHz "Rooftop" Lowpass Filter

Mechanical Drawing

Size: 14 mm (L) x 9 mm (W) x 8 mm (H) preliminary estimates

Weight: 5g preliminary estimates

PCB Layout



Packaging and Marking

Electrical Response

Preliminary
simulation