



RLF0270A - PRELIMINARY <2.7GHz "Rooftop" Lowpass Filter

Features

- Superior power handling and reliability
- Provides rejection over 3.4-6.0GHz 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	-	-	-	12 Watt max
Peak Input Power	-	-	-	120 Watt max

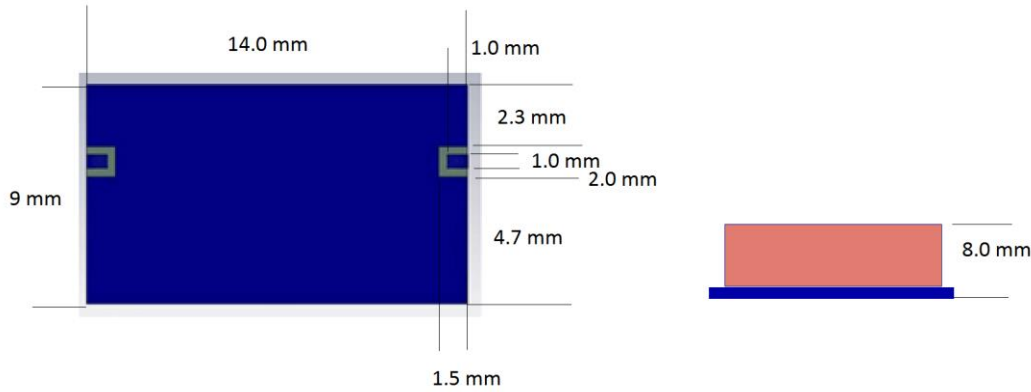
Input-Output Response

Parameter	Frequency (MHz)	Typical at 25°C	Spec. at 25°C	Spec. over -40°C to +85°C
Passband Insertion Loss (10 MHz avg)	2300-2690	0.4	0.4	0.5 dB
Passband Return Loss	2300-2690	18 dB min	18 dB min	18 dB min
Attenuation:	3263-3400	10 dB min	10 dB min	10 dB min
	3400-3475	25 dB min	25 dB min	25 dB min
	3475-5150	35 dB min	35 dB min	35 dB min
	5150-5350	45 dB min	45 dB min	45 dB min
	5350-5725	40 dB min	40 dB min	40 dB min
	5725-5850	55 dB min	55 dB min	55 dB min
	5850-7250	25 dB min	25 dB min	25 dB min
	7250-7500	20 dB min	20 dB min	20 dB min
	7500-7725	10 dB min	10 dB min	10 dB min
	7725-7905	17 dB min	17 dB min	17 dB min
7905-10000	8 dB min	8 dB min	8 dB min	
10000-12750	5 dB min	5 dB min	5 dB min	

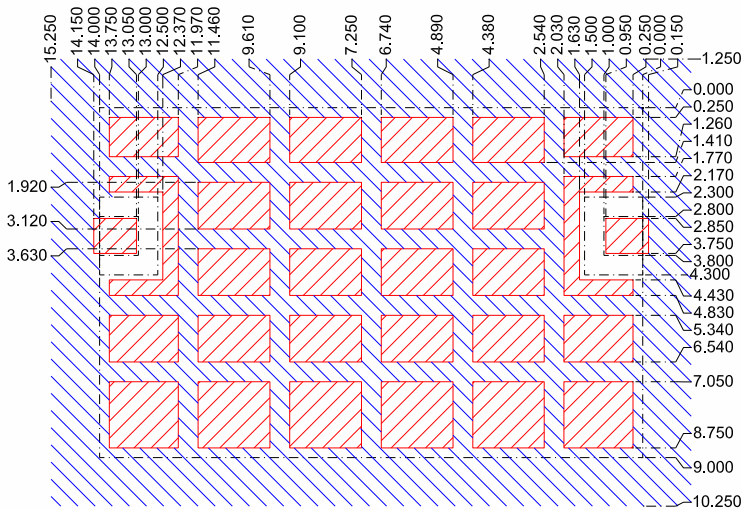
Note: CTS tests each unit to the critical specifications above. Subsequent audits may deviate due to repeatability among different test systems which shall not exceed these allowances.

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

Mechanical Drawing

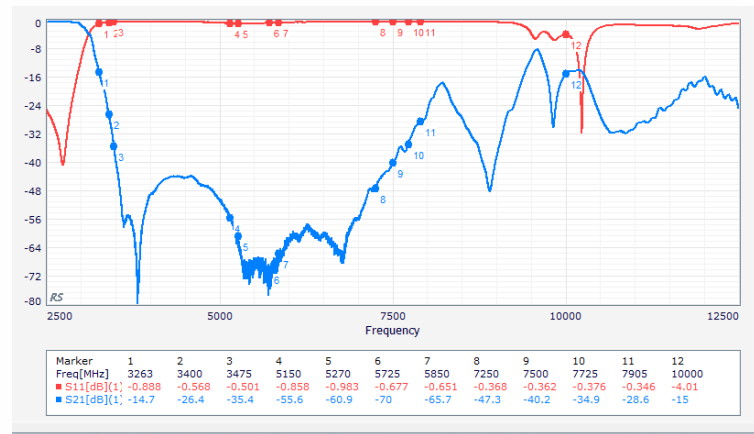


PCB Layout



- Filter Outline
- Exposed Conductor
- Solder Resist Over Dielectric
- Solder Resist Over Conductor (Keep Out)

Electrical Response



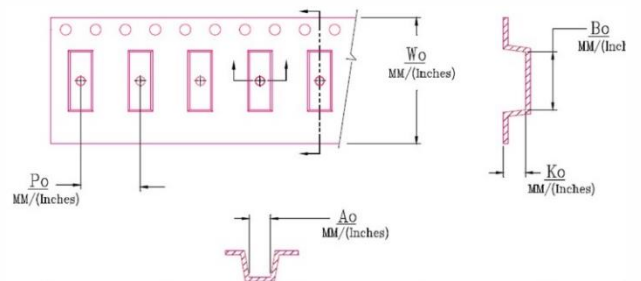
Packaging and Marking

Dimension	Units	Spec.
Reel Diameter	mm	330
Reel Weight	kg	5.5
Reel Quantity	ea.	500

Product Marking



Customer Feed Direction → → →



W_0	A_0	B_0	K_0	P_0
0.945 in	0.370 in	0.567 in	0.287 in	0.630 in
24.0 mm	9.4 mm	14.4 mm	7.3 mm	16.0 mm