

RLF0250A <2.5GHz “Rooftop” Lowpass Filter

Features

- Superior power handling and reliability
- Provides rejection over 3.3-6.0GHz for use with CMB, CMD, USD, USB, and UMD.
- Directly solders to PCB

Applications

- Wireless Infrastructure applications



Part Dimensions: 14.0 × 9.0 × 6.6 mm • 1 g

Description

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

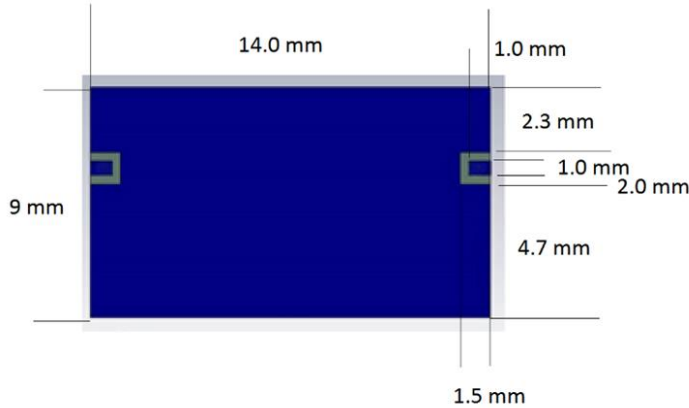
Electrical Specifications

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	-	-	-	20 Watt max
Peak Input Power	-	-	-	200 Watt max
Input-Output Response				
Passband Insertion Loss (10 MHz avg)	2200-2500	0.35 dB	0.40 dB max	0.45 dB max
Passband Return Loss	2200-2500	18 dB	16 dB min	16 dB min
Attenuation:	3400-5150	28 dB	20 dB min	20 dB min
	5150-5925	55 dB	50 dB min	50 dB min
	5925-7200	26 dB	20 dB min	20 dB min
	7200-12750	10 dB	8 dB min	8 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

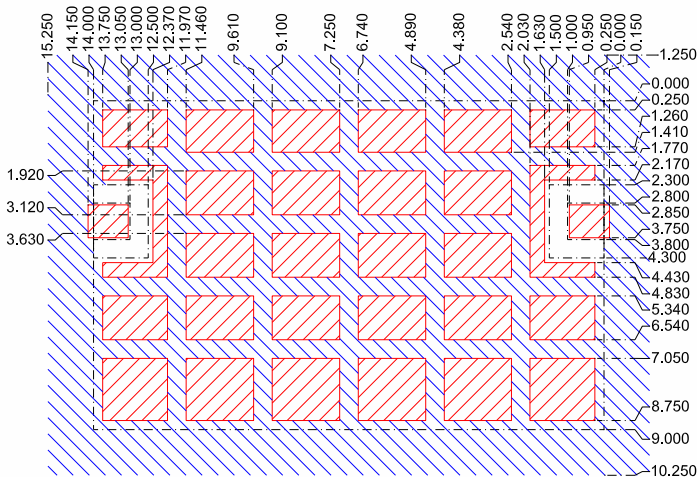
Mechanical Drawing



Tolerances:
Outline dimension $\pm 0.2\text{mm}$
IO $\pm 0.13\text{mm}$



PCB Layout



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

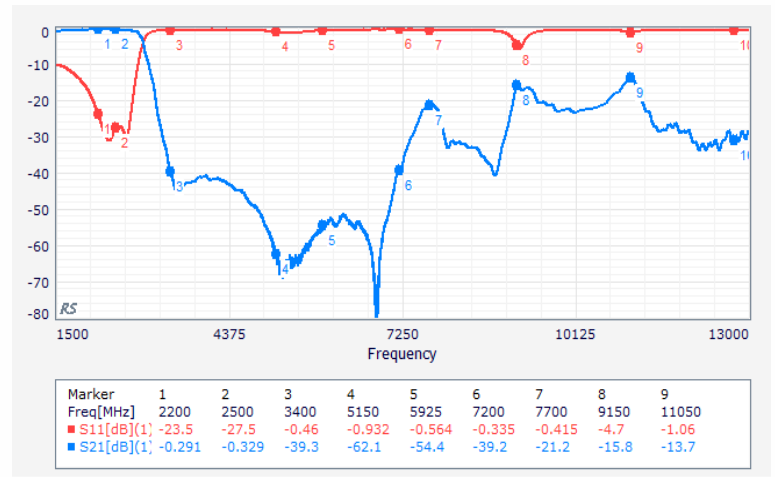
Packaging and Marking

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

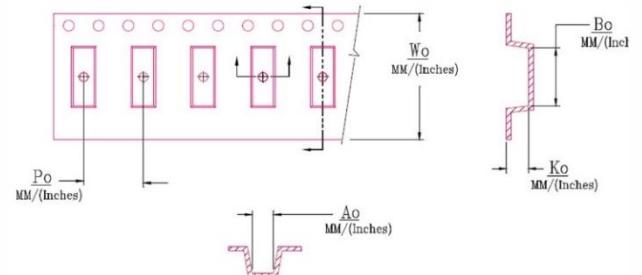
Product Marking

CTS
250
YWW

Electrical Response



Customer Feed Direction → → →



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