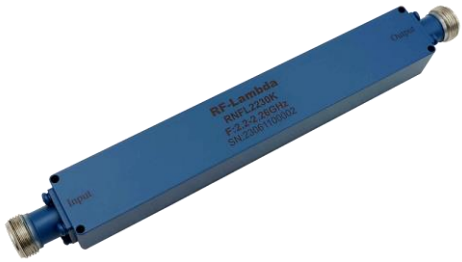


Coaxial Cavity Notch Filter 2.2GHz-2.26GHz



Product Description

RNFL2230K is a coaxial cavity notch filter with a frequency range of 2.2 to 2.26GHz.

The power rating is 50W. The insertion loss is 3.0dB with a minimum rejection of 50dB.

The working temperature of this product is between - 40°C and + 85°C.

Features

- High Rejection
- Low Insertion Loss
- Excellent Temperature Stability
- Miniaturization
- Filter Type: Cavity

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications, TA = +25°C

Parameter	Min	Typ	Max	Units
Passband Frequency		DC - 2.125 2.335 - 3.5		GHz
Band stop Frequency		2.2-2.26		GHz
Passband Insertion Loss			3.0	dB
VSWR			1.8	:1
Band stop Rejection	50			dB
Power			50	W
Weight		0.34Max.		lbs
Impedance		50		Ω
Input / Output Connectors		N-Female(Input) – N-Female(Output)		
Package		Epoxy Sealed (Standard)		
		Hermetically Sealed (Optional)		

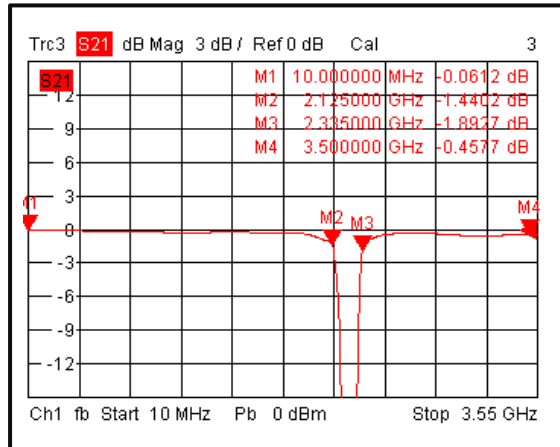
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C → +105°C
Thermal Shock	-40°C to +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

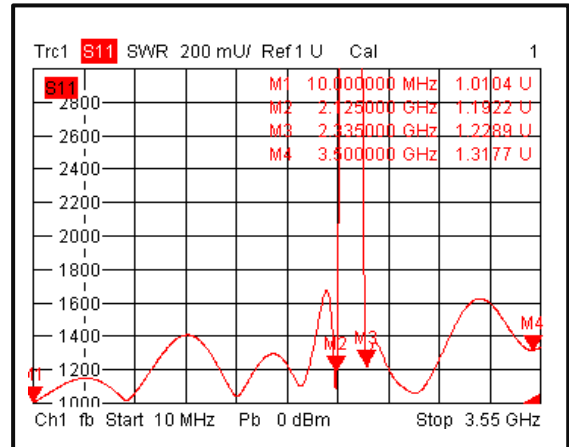
**For vibration testing details please see additional information section.

Typical Performance Plots

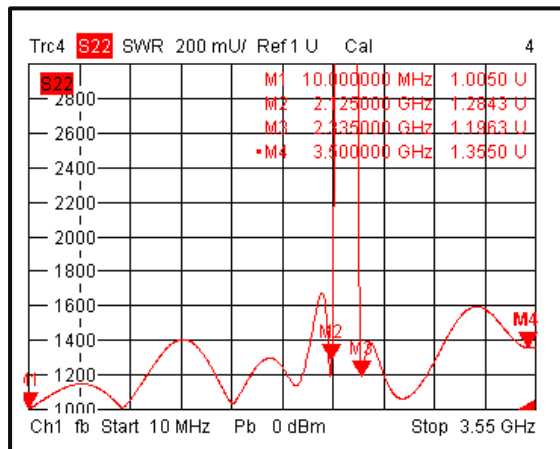
Insertion Loss



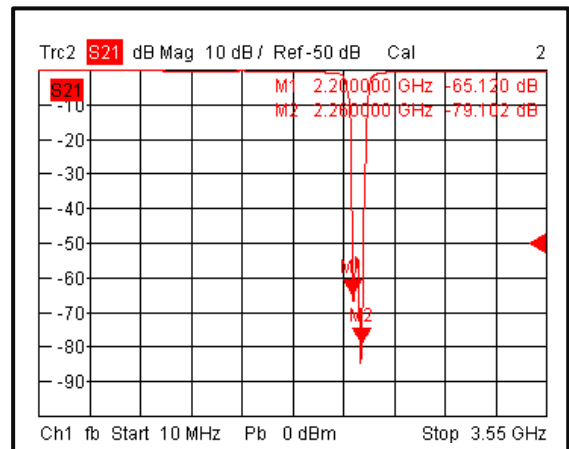
VSWR



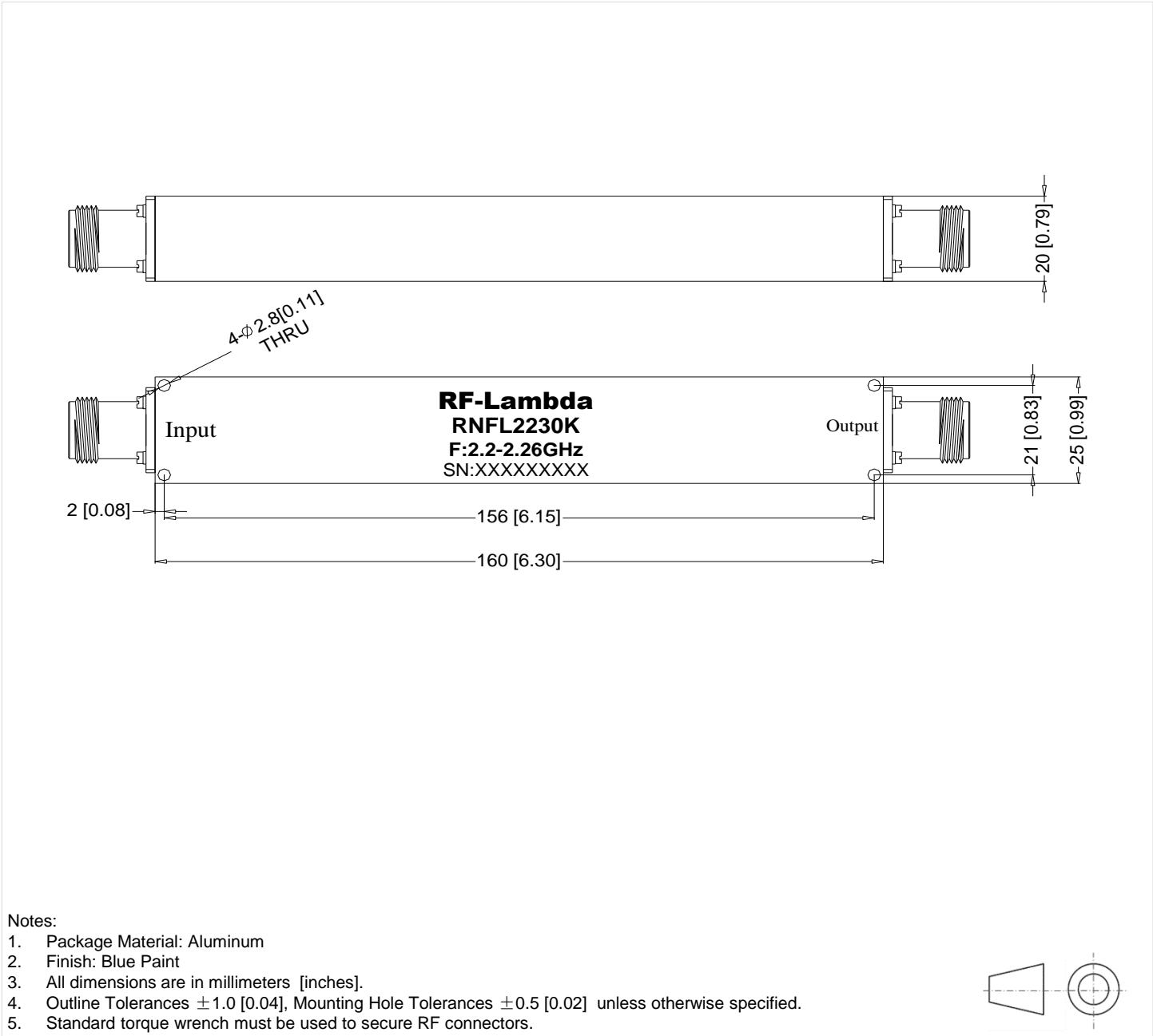
VSWR



Rejection



Outline Drawing



Additional Information

Documentation	Webpage
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RNFL2230K	Connectors N-Female	2.2GHz-2.26GHz Coaxial Cavity Notch Filter

Important Notice

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