PolyPhaser

Positive Train Control (PTC) Filter, Railroad RF Band Pass with Surge Protector, 160 MHz to 163 MHz, Type N F/M, 100W CW, IP67, 50uJ, 10kA



RRF-160-NFM-L

Features

- Surge current 10kA
- Max Power 100W
- Frequency Range from 160Mhz to 163MHz
- N-Type Female connectors
- · Waterproof IP67 rated
- VSWR Typical 1.22:1

Description

RF band pass filter RRF-160-NFM-L from PolyPhaser, integrates filtering elements and RF lightning protection (also known as lightning arrester or surge arrestor). This RF filter is manufactured in a coaxial in-line design with a specific operating frequency range. All PolyPhaser RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Passband Frequency	160		163	MHz
Impedance		50		Ohms
Insertion Loss			0.8	dB
Passband VSWR		1.22:1		
Passband Return Loss		20		dB
Rejection at 110 MHz		60		dB
Rejection at 220 MHz		60		dB
Surge Current			10	kA
10kA IEC 61000-4-5 8/20µs WA	VEFORM			
Turn On Voltage		90 ±20 %		Volts
Throughput Energy		50		uJ
FOR 3kA @8/20µs WAVEFORM	Л			
Input Power, CW			100	Watts

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size

 Length
 7 in [177.8 mm]

 Width
 2.25 in [57.15 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Positive Train Control (PTC) Filter, Railroad RF Band Pass with Surge Protector, 160 MHz to 163 MHz, Type N F/M, 100W CW, IP67, 50uJ, 10kA RRF-160-NFM-L

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Height 1.42 in [36.07 mm]
Weight 1 lbs [453.59 g]

Configuration

Design Bidirectional Lumped Elements

Number of Sections
Connector 1 N Female

Connector 1 N Female
Connector 2 N Male

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Ingress Protection (IP) Rating IP67

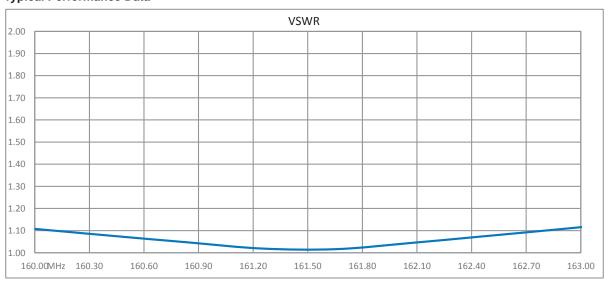
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

Typical Performance Data



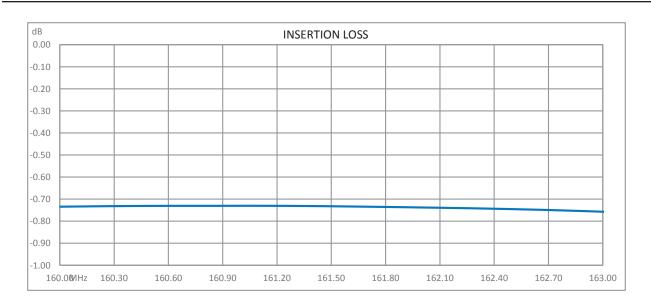
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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: https://www.polyphaser.com/railroad-band-pass-surge-protector-160-163-mhz-rrf-160-nfm-l

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RRF-160-NFM-L CAD Drawing

