PolyPhaser

Positive Train Control (PTC) Filter, Railroad RF Band Pass with Surge Protector, 217 MHz to 223 MHz, Type N F/F, 100W CW, IP67, 50uJ, 10kA

RRF-220-NFF

Features

- Surge current 10kA
- Max Power 100W
- Frequency Range from 217Mhz to 223MHz
- N-Type Female connectors
- Waterproof IP67 rated
- VSWR Typical 1.22:1

Description

RF band pass filter RRF-220-NFF 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	217		223	MHz
Impedance		50		Ohms
Insertion Loss			1	dB
Passband VSWR		1.22:1		
Passband Return Loss		20		dB
Rejection at 160 MHz		60		dB
Rejection at 460 MHz		45		dB
Surge Current 10kA IEC 61000-4-5 8/20µs WAVEFORM			10	kA
Turn On Voltage		90 ±20 %		Volts
Throughput Voltage			0.5	Volts
Throughput Energy FOR 3kA @8/20µs WAVEFORM		50		uJ
Input Power, CW			100	Watts

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

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications:
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Mechanical Specifications

Size

Length	6.7 in [170.18 mm]
Width	3 in [76.2 mm]
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 2	N Female

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:

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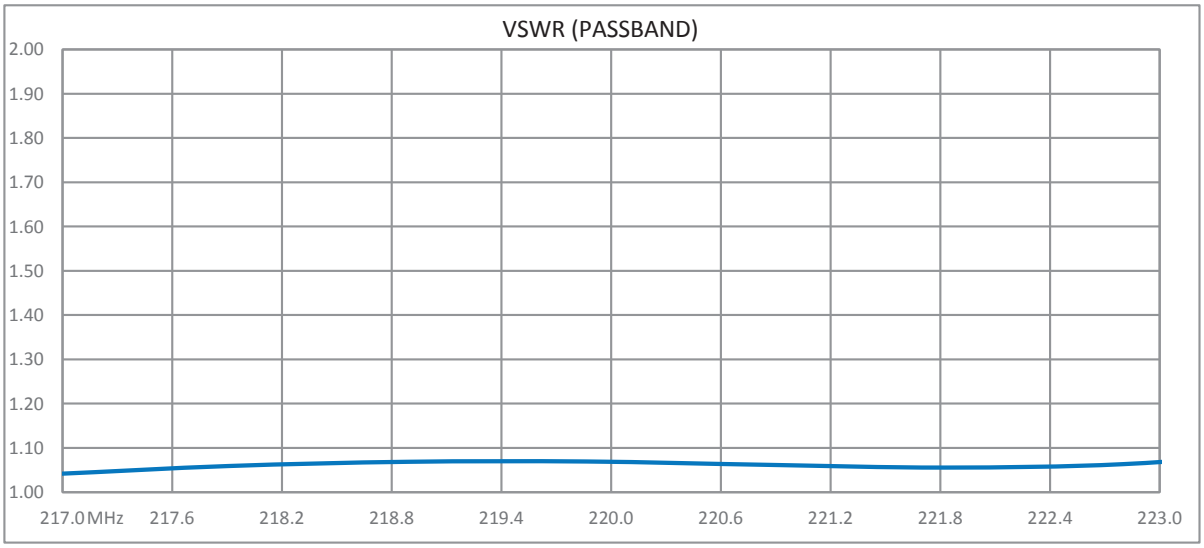
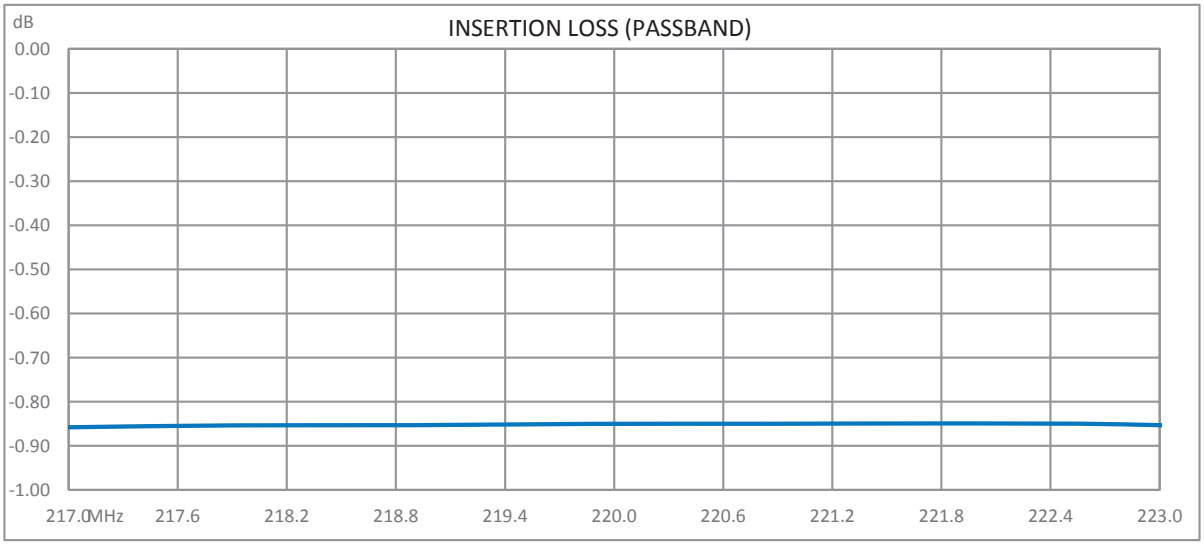
Typical Performance Data





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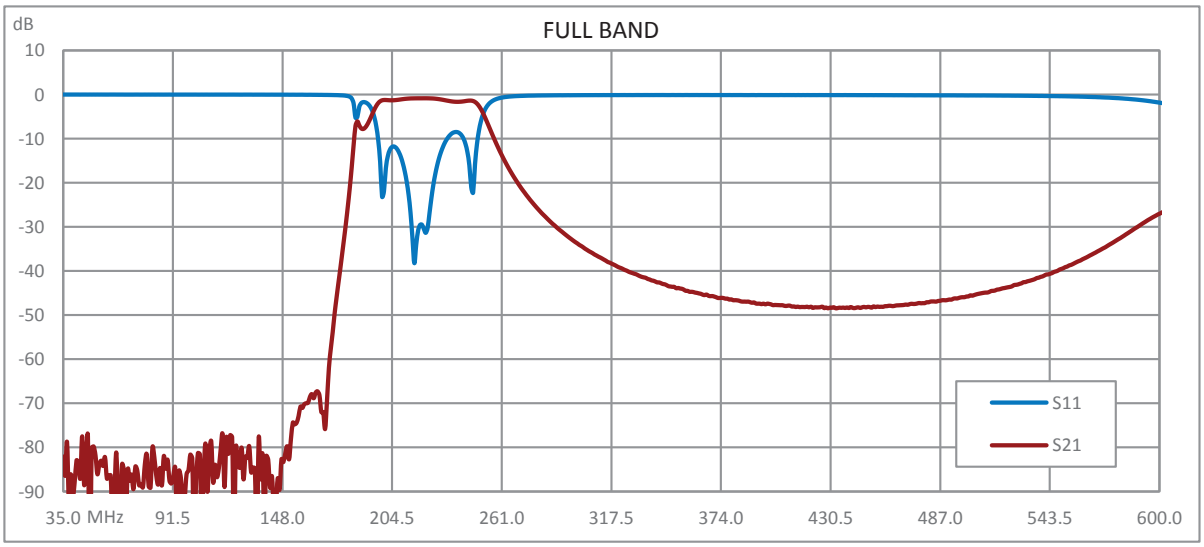

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service 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-217-223-mhz-rrf-220-nff

Positive Train Control (PTC) Filter, Railroad RF Band Pass with Surge Protector, 217 MHz to 223 MHz, Type N F/F, 100W CW, IP67, 50uJ, 10kA

RRF-220-NFF CAD Drawing