

Positive Train Control (PTC) Filter, Railroad RF Band Pass, 217 MHz to 219 MHz, Type N F/F, 20W CW, IP54



RRF-ACE-220-NFF

Features

- Max Power 20W
- Frequency Range from 217MHz to 219MHz
- N-Type Female connectors
- Waterproof IP54 rated
- VSWR Typical 1.5:1
- Mounting Hardware Kit Included

Description

RF band pass filter RRF-ACE-220-NFF from PolyPhaser, integrates filtering elements and RF lightning protection (also known as lightning arrester or surge arrestor). This RF filter for ACSES Radio 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	Min	Typ	Max	Units
Passband Frequency	217		219	MHz
Impedance		50		Ohms
Insertion Loss			2.5	dB
Passband VSWR		1.5:1		
Passband Return Loss		14		dB
Rejection at 160 MHz	61	40		dB
Rejection at 460 MHz	61	40		dB
Input Power, CW			20	Watts

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

Mechanical Specifications

Size

Length	8.66 in [219.96 mm]
Width	5.91 in [150.11 mm]
Height	3.82 in [97.03 mm]
Weight	11.25 lbs [5.1 kg]

Configuration

Design	Combine
Connector 1	N Female
Connector 2	N Female

Environmental Specifications

Temperature

Operating Range	-40 to +70 deg C
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Environment

Ingress Protection (IP) Rating	IP54
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Humidity
Vibration

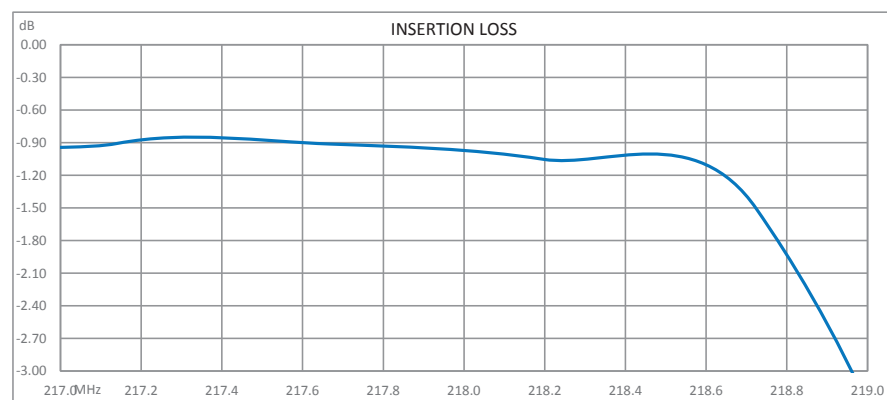
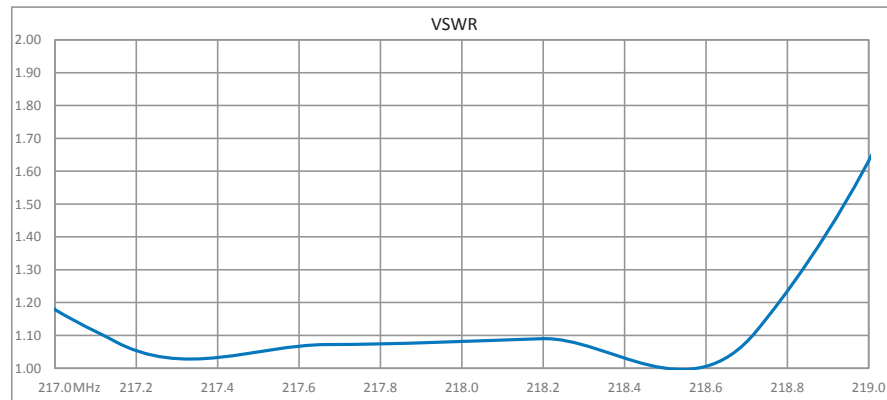
40% to 95%, Non-condensing
5 to 10 Hz = 7.6mm
10 to 200 Hz = 1.5 G
Mech shock - 10 G

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.

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, 217 MHz to 219 MHz, Type N F/F, 20W CW, IP54 RRF-ACE-220-NFF](https://www.polyphaser.com/railroad-band-pass-217-219-mhz-rrf-ace-220-nff)

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The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume liability arising out of the use of any part or document.

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