# **PolyPhaser**

Positive Train Control (PTC) Filter, Railroad RF Band Pass, 220 MHz to 222 MHz, Type N F/F, 20W CW, IP54

## RRF-ITC-220-NFF



- Max Power 20W
- Frequency Range from 220 MHz to 222 MHz
- N-Type Female connectors

- Waterproof IP54 rated
- VSWR Typical 1.5:1

#### Description

RF band pass filter RRF-ITC-220-NFF from PolyPhaser, is a combline filter with high rejection. 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**

Minimum	Typical	Maximum	Units
220		222	MHz
	50		Ohms
		2.5	dB
	1.5:1		
	14		dB
58	40		dB
58	40		dB
		20	Watts
	220	220 50 1.5:1 14 58 40	220 222   50 2.5   1.5:1 14   58 40   58 40

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

### **Mechanical Specifications**

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]
<b>Configuration</b> Design Number of Sections Connector 1 Connector 2	Combline N Female N Female

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, 220 MHz to 222 MHz, Type N F/F, 20W CW, IP54 RRF-ITC-220-NFF



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#### **Environmental Specifications**

**Temperature** Operating Range

Environment

Ingress Protection (IP) Rating Humidity Vibration -40 to +70 deg C

IP54 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**

VSWR 2.00 1.90 1.80 1.70 1.60 1.50 1.40 1.30 1.20 1.10 1.00 220.0 MHz 220.2 220.4 220.6 220.8 221.4 221.6 221.8 221.0 221.2 222.0

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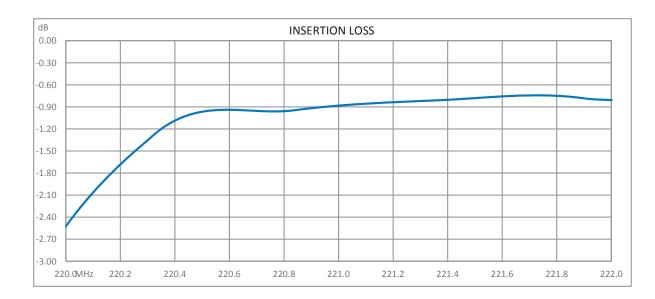


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, 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-220-222-mhz-rrf-itc-220-nff

The information contained in 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 any liability arising out of the use of any part or documentation.

#### RRF-ITC-220-NFF CAD Drawing

