

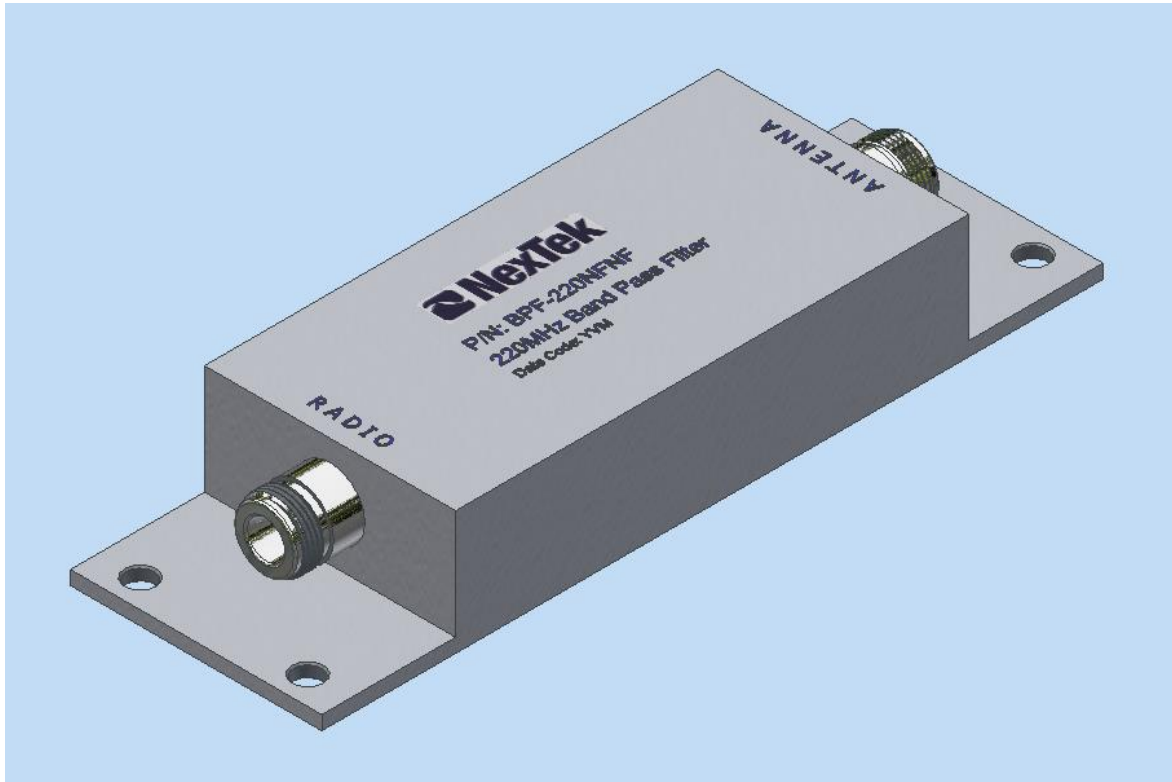
Positive Train Control (PTC) Filter, Railroad RF Band Pass with Surge Protection, 220 MHz to 222 MHz, 25W, IP67 with Type N Female Connectors

NexTek's BPF series band pass filters are specifically designed for railroad positive train control, PTC networks. They provide optimum filtering; sharp cutoff and notched response. The filters reduce the interference from co-located radios, internal (on-board) and external to increase the system's reliability. NexTek's solution for the PTC filter incorporates a bandpass of 220 - 222 MHz frequencies while incorporating surge protection utilizing Type N Connectors.

For additional information please contact NexTek directly or your local representative.

Key Features

- Frequency Range 220 MHz to 222 MHz
- Continuous RF Power 25W
- VSWR 1.22:1 typical
- Surge Current 10kA
- Weatherproof IP67 Rated
- Type N Female Connectors



Electrical Specifications

| RF Performance | |
|----------------------------|--------------------------------------|
| Passband Frequency Range | 220-222 MHz |
| Passband Return Loss | ≥ 20 dB |
| VSWR, Typical | 1.22:1 |
| Passband Insertion Loss | ≤ 1 dB (0.8 dB typical) |
| Band Reject Insertion Loss | ≥60 dB @ 160 MHz ≥40 dB @ 460 MHz |

| Surge Protection Performance | |
|--|--------------------------------------|
| Surge Current | 10kA IEC 61000-4-5 8uS/20uS WAVEFORM |
| GDT Turn on | 90 Volts ±20% |
| Throughput Energy For 3kA @8/20µs surge | <50 µJ <500mV/pk Voltage |

| | |
|---------------------|-----|
| Continuous RF Power | 25W |
|---------------------|-----|

Mechanical Specifications

| Size | |
|--------|-------------------|
| Length | 2.25 in (57.2mm) |
| Width | 7.00 in (177.8mm) |
| Height | 1.1 in (28.1 mm) |
| Weight | 1 lb. (453.6g) |

| | |
|---------------|-----------------|
| Configuration | |
| Design | Lumped Elements |
| Connector 1 | N Female |
| Connector 2 | N Female |

Environmental Specifications

| | |
|-------------------|---|
| Temperature Range | -40°C to +85°C |
| Weatherization | IEC 60529 IP67 and meets BELLCORE #TA-NWT-000487 PROCEDURE 4.11 WIND DRIVEN 120MPH RAIN INTRUSION TEST |

Regulatory Compliance:

| | |
|-------|-----|
| RoHS | Yes |
| REACH | Yes |

Accessories: Hardware Kit Included

| | |
|--------|---|
| 4 each | Screw, 10-32 x ½" Phil Pan Head 18-8 SS |
| 4 each | Washer, Lock EXT Tooth # 10 18-8 SS |
| 4 each | Nut, 10-32 Hex 18-8 SS |

Mechanical Outline

