



Universal Gas Tube Coaxial Surge Protectors

P8AX Series



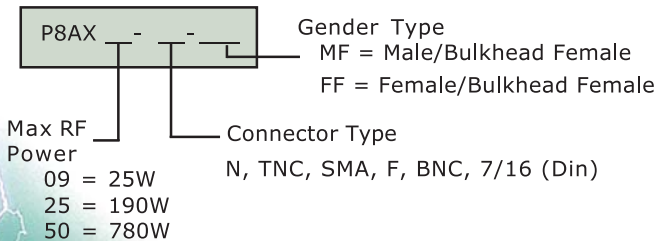
P8AX25-B/MF

The P8AX series coaxial surge protectors have been designed to protect antennas, microwaves, broadband applications, two-way radios, cellular, GPS and CATV equipment against lightning surges and electrical transients. They are a first line of defense for your sensitive equipment.

The P8AX series employs a patented replaceable gas tube, are waterproof (IP65) and available with three grounding options:
M6 ground screw, bulkhead or optional mounting bracket.

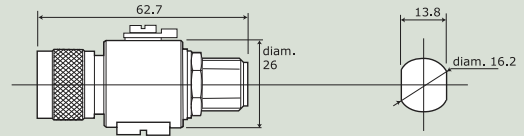
- Tower Mounted Amplifiers (TMA)
- Global Positioning Systems (GPS)
- Antenna Systems
- Tower Top Electronics (TTE)
- Transmitters and Receivers
- WiFi
- Broadband Wireless
- WiMax Broadband wireless

Ordering information



Dimensions

P8AX09-N/MF
(example)



High-Frequency Surge Protection

- 20kA transient amps protection (8/20µs)
- 5kA transient amps protection (10/350µs)
- DC Pass to +/-48V
- VSWR < 1.2
- Insertion Loss < 0.1dB
- Bi-directional, series installed
- Waterproof
- Removable GDT

Characteristics

| CITEL Part Number | P8AX09 | P8AX25 | P8AX50 |
|-----------------------------|---|---|---|
| Frequency Range | DC-5GHz | DC-5GHz | DC-5GHz |
| DC Turn-On (Breakdown) | 90-130V | 200-300V | 400-600V |
| Technology | Gas Discharge Tube | Gas Discharge Tube | Gas Discharge Tube |
| Insertion Loss | ≤0.1db | ≤0.1db | ≤0.1db |
| Return Loss | ≥20db | ≥20db | ≥20db |
| VSWR | <1.2:1 | <1.2:1 | <1.2:1 |
| I _{peak} (8/20 µs) | 20kA | 20kA | 20kA |
| Max Power | 25W | 190W | 780W |
| Max current | 10A | 10A | 10A |
| Impedance | 50 omhs ¹ | 50 omhs ¹ | 50 omhs ¹ |
| Connection Method | Series (bi-directional) | Series (bi-directional) | Series (bi-directional) |
| Connectors | N, TNC, SMA, F, BNC, 7/16 | N, TNC, SMA, F, BNC, 7/16 | N, TNC, SMA, F, BNC, 7/16 |
| Grounding | M6 Screw, Bulkhead, Bracket | M6 Screw, Bulkhead, Bracket | M6 Screw, Bulkhead, Bracket |
| Environmental Rating | IP65 | IP65 | IP65 |
| Operating Temp | -50°C to +85°C | -50°C to +85°C | -50°C to +85°C |
| Operating Altitude | 13,000 ft (4,000m) | 13,000 ft (4,000m) | 13,000 ft (4,000m) |
| Relative Humidity | up to 5 to 95% non-condensing, up to 100% | up to 5 to 95% non-condensing, up to 100% | up to 5 to 95% non-condensing, up to 100% |
| Weight | 4.4 oz | 4.4 oz | 4.4 oz |

¹ Impedance for F-Type Connector is 75 Ohms.