



## Universal Gas Tube Coaxial Surge Protectors

### P8AX Series

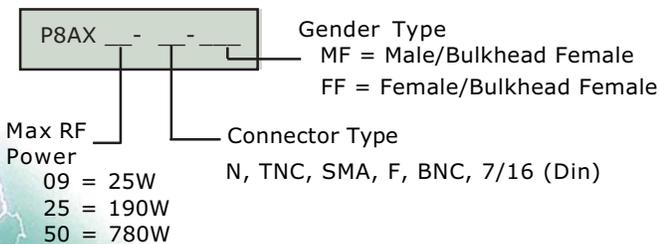


The P8AX series coaxial surge protectors have been designed to protect antennas, microwaves, broadband applications, two-way radios, cellular, GPS and CATV equipment against lightning surges and electrical transients. They are a first line of defense for your sensitive equipment.

The P8AX series employs a patented 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



#### High-Frequency Surge Protection

- 20kA transient amps protection (8/20 $\mu$ s)
- 5kA transient amps protection (10/350 $\mu$ s)
- 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	$\leq 0.1$ db	$\leq 0.1$ db	$\leq 0.1$ db
Return Loss	$\geq 20$ db	$\geq 20$ db	$\geq 20$ db
VSWR	<1.2:1	<1.2:1	<1.2:1
I <sub>peak</sub> (8/20 $\mu$ s)	20kA	20kA	20kA
Max Power	25W	190W	780W
Max current	10A	10A	10A
Impedance	50 omhs <sup>1</sup>	50 omhs <sup>1</sup>	50 omhs <sup>1</sup>
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

<sup>1</sup> Impedance for F-Type Connector is 75 Ohms.