

Section 3

RF HARDWARE

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RF MAX Coaxial Power Surge Protection, N-Type, Bulkhead Mount

Frequency
Up to 2.5 GHz

**ZCG
SCALAR**
INNOVATE MANUFACTURE SUPPORT

In the event of a lightning strike, protecting your expensive transmitter from a potentially destructive power surge is obviously an important precaution. A coaxial power surge protector installed in the cable line will give your transmission equipment the best chance of survival. A ground earthing kit is vitally important as well.

These RF MAX N-Type coaxial gas tube type power surge protectors offer clients a low cost solution with absolutely no compromise in quality of construction or reliability.

Suitable for frequencies up to 2.5 GHz and 40 watts power, in the event of any power surge over 230 Volts DC, the fast response gas filled arrester instantly fires clamping the voltage between the inner and outer conductors of the coaxial cable. This virtual short circuit diverts the power surge to ground and gives your transmission equipment the greatest chance of survival.

The surge protector can be installed in various positions :

1. Bulkhead mounted through a wall or cable entry plate, or
2. Near the end of the cable line at the entry point into a building, or
3. At the equipment antenna receptacle.

The **GM6** slotted bracket is available separately to secure the surge protector to any flat surface with screws or bolts.

There are two connector combinations available :

- Order **1792** for N-Female connectors each end.
- Order **1793** for the N-Female to N-Male connector combination.

To be effective, the body of the surge protector must be attached to a well grounded part of the structure. An earthing lug is provided for this purpose.

Following any lightning strike, the gas discharge tube will most likely have been destroyed. The surge protector will then need to be replaced.

SPECIFICATIONS	1792	1793
Connector Combination	N-Female to N-Female	N-Female to N-Male
Construction	Brass, teflon, beryllium copper, phosphor bronze, silicon rubber	
Maximum Operating Frequency	D.C. up to 2.5 GHz	
Sparkover Voltage	Above 230 Volts DC	
Maximum Power	40 Watts	
Impedance	50 Ohms	
VSWR	Less than or equal to 1.15:1	
Insertion Loss	Less than or equal to 0.2 dB	
Earthing	Lug provided	
Operating Temp	-40°C to +85°C	
Dimensions	70 mm long x 25 mm wide	
Weight	125 grams	
Mounting	In the coaxial cable line. Can also be bulkhead mounted through wall or plate	
Optional GM6 Slotted Bracket	Available separately to secure the surge protector to any flat surface with screws or bolts	



Earthing lug provided



1792: N-Female to N-Female



1793: N-Female to N-Male



Optional GM6 slotted bracket

