

Surge Protector

SP-NFNF7G

SP-NFNM7G

N-type Bulkhead Coaxial RF Surge Protector, DC-7GHz



Electrical Specifications

Product Model	SP-NFNF7G	SP-NFNM7G
Connector type	Bulkhead N-female/N-female	Bulkhead N-female/N-male
Frequency (MHz)	DC-7000	
Impedance (ohm)	50.0	
Average Power (W)	150	
Insertion Loss (dB)		
DC-6700MHz	≤ 0.2	
6700-7000MHz	≤ 0.3	
VSWR		
DC-6700MHz	≤ 1.20	
6700-7000MHz	≤ 1.30	
Surge Current	10kA Multiple (Wave Form 8/20μs)	
Turn on Voltage	180VDC	
Impulse Sparkover	700V (1kV/μs)	
Protection Circuit	DC Pass, Bidirectional	

Mechanical Specifications

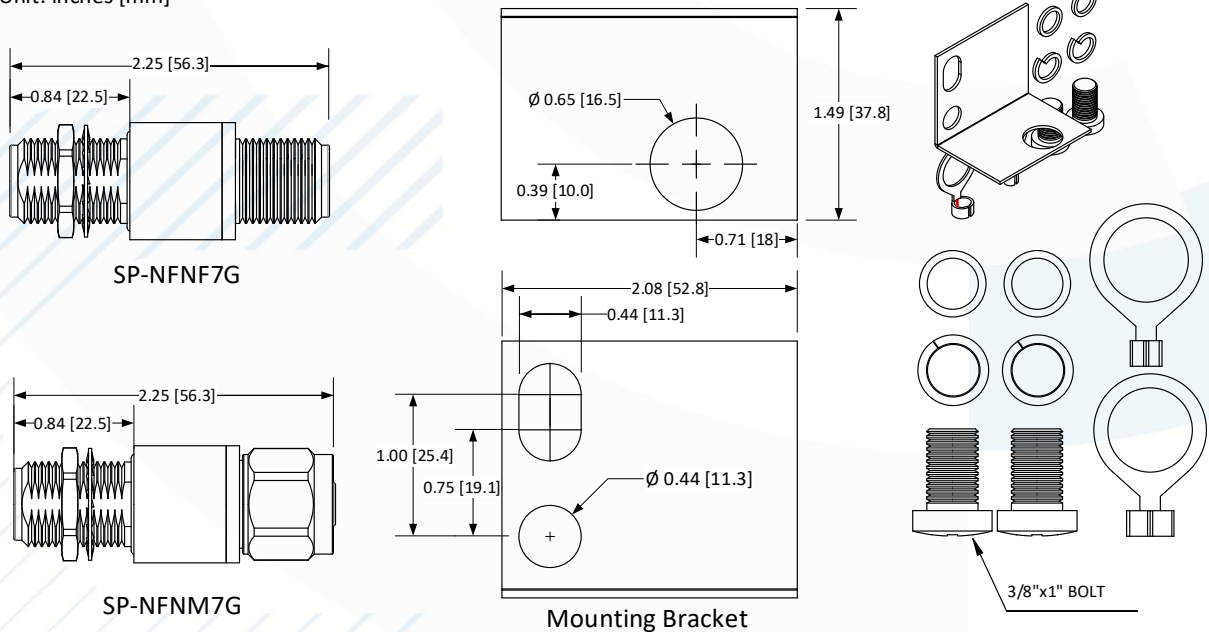
Dimension (in/ mm)	2.08x1.81x1.47 / 52.8x46.0x37.5
Weight (lb./kg)	0.33 / 0.15
Shipping Dimension (in/mm)	3.74x3.15x1.57 / 95.0x80.0x40.0
Shipping Weight (lb./kg)	0.44 / 0.20
Connector Type	Bulkhead N-female/ N-female, N-male
Inner Conductor Material	Spring Copper, Ag Plated
Outer Conductor Material	Brass Copper, Tin Zinc Plated
O-ring materials	Silicon Rubber
Insulator Material	PTFE

Environment & Compliance

Application	Indoor / Outdoor
Operation Temperature	-40°C to +85°C
Environment	IP67
Relative Humidity	Up to 95%
RoHS	Compliant

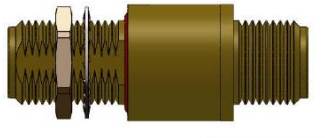
Outline Drawing

Unit: inches [mm]

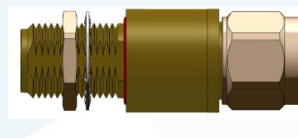


Installation Instruction

SP-NFNF7G/ SP-NFNM7G Installation Instruction



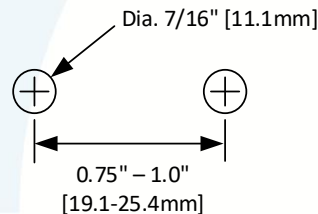
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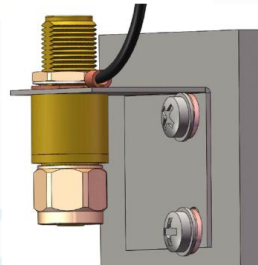
1. Surge Protector Mounting

- The recommended mounting hole spacing for the surge protector is **0.75" to 1.0" [19.1 to 25.4 mm]**. Use **3/8" bolts** for secure installation.

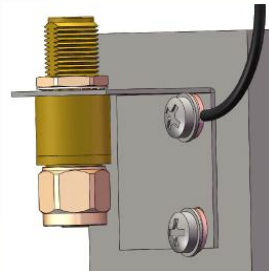


2. Assembly and Grounding

- Assemble the surge protector to the provided bracket. The bracket is designed to be mounted directly onto the ground bar. There are two available options for connecting the ground wire. Refer to the picture below for the ground wire installation configurations.



Option 1



Option 2

Note:

1) Torque Requirements

Recommended tightening torque is 3 N·m for the connector coupling nut (Option 1) and 8–10 N·m for the bracket mounting hardware (Option 2).

2) Environmental Protection

The protector is designed for outdoor use and provides weather resistance rated to IP67.

3) Grounding Requirements

The protector must be bonded to ground via a flat, conductive bulkhead or mounting plate, using a low-inductance, low-impedance grounding conductor with minimal bends. The overall level of protection is highly dependent on the quality of the connected earth-ground system.

4) Electrical Continuity Check

The protector should exhibit no electrical continuity between the connector center pins, nor between either center pin and the shield. If any resistance is detected, the protector must be replaced.