

AL6-NFNFBW-9 - N-Male to N-Female Bulkhead 0-6 GHz 90 V Lightning Protector

Features

- Reliable Performance from DC ~ 6 GHz
- Bi-Directional Protection
- Protector will pass DC
- Easily Replaced Gas Tube Element
- Multi-Strike Capability

The AL6-NFNFBW-9 is a very high-performance gas discharge tube suppressor featuring wide-band operation up to 6 GHz. The unit features a bulkhead N-Female connector with a rubber "O"-ring seal for mounting through an enclosure wall or using the optional stainless steel mounting bracket.

Due to its superior RF performance this unit is ideal for IEEE 802.11a and other 5.2 - 5.8 GHz ISM and UNII applications, as well as 3.5 GHz WLL applications. Since this protector will pass DC it is suitable for applications where DC is carried through the coax cable such as remote amplifiers and LNA's.

Both connector ports of this unit are equally protected. This provides protection no matter which way it is installed. Either port can face the antenna and either port can face the equipment.

The unit's replaceable gas tube element, multi-strike capability and fast response time make it suitable for a wide range of applications. A ground lug and terminal is provided directly on the lightning protector housing, which provides superior grounding.

Due to its low cost and superior RF performance, this unit is ideal for IEEE 802.11b and 802.11g Wireless LAN applications, as well as ISM, MMDS, Cellular, and PCS applications. Since this protector will pass DC, it is suitable for applications where DC is carried through the coax cable, such as remote amplifiers and LNAs.

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Applications

- IEEE 802.11a, 802.11b and 802.11g Wireless LAN applications
- ISM
- MMDS
- Cellular applications
- PCS applications

AL6-NFNFBW-9



Specifications

Electrical Specifications							
Frequency Range		0 - 6 GHz					
Protector Complies With		IEC / IEEE Standard					
VSWR		1.20:1 Max (0 - 6 GHz)					
Insertion Loss		0.6 dB Max (0 - 6 GHz)					
Impedance		50 Ohm					
Standard Gas Tube Element: DC Breakdown Voltage Indicated		90 V 20%					
Gas Tube Impulse Breakdown Voltage		1000 V 20%					
Gas Tube Insulation Resistance		10,000 MΩ					
Maximum Withstand Current		5 kA					
RF Power Rating							
Model Suffix	Voltage Rating	DC ~ 30 MHz		30 ~ 500MHz		500MHz ~ 3GHz	
		PEP ¹	CW ²	PEP ¹	CW ²	PEP ¹	CW ²
-9	90 Volt	110 W	55 W	65 W	32 W	20 W	10 W
Replacement gas tube for AL6-NMNFBW-9: LPX090-6							
Mechanical Specifications							
Connectors Comply With		MIL-C-71A, 39012 Standard					
Connectors Types		N-Female to N-Female Bulkhead					
Connector Body Material		Nickel Plated Brass					
Body Material		Aluminum					
Pin Material		Gold Plated Brass					
O-Ring Material		Rubber					
Bracket Material		Aluminum					
Ground Lug		10 AWG Max.					
Max. Panel Thickness (Bulkhead Connector)		0.312" (7.93 mm) Thick					
Dimensions (L x H x W)		2.6 in x 1.2 in x 0.9 in (98 mm x 31 mm x 23 mm)					
Weight		0.25 lbs. (110 g)					
Environmental Specifications							
Temperature Range		-67F to 185F (-55C to +85C)					
Dust and Waterproof Rating		IEC 529 / IP65					
Moisture Resistance		MIL-STD-202 Method 106D					
Salt Fog		MIL-STD-202 101D/B					
Temperature Shock		MIL-STD-202 107D/A-1					
Vibration		MIL-STD-202 Method 204D/B					
Shock		MIL-STD-202 Method 213B/A					
RoHS Compliant		Yes					

Notes:

1 - Peak Envelope Power (PEP): The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle at the crest of the modulation envelope taken under normal operating conditions.

2 - Continuous Wave (CW): A wave of constant amplitude and constant frequency.

