

Features

- Heavy duty design
- High frequency DC-4 GHz
- DC Pass to ±48 V
- VSWR < 1.2
- Low insertion loss < 0.1 dB
- Bidirectional
- Water resistant

- Replaceable gas tube
- Three grounding options
- RoHS compliant*
- (I) Listed (File: E360007)

1977 Series High Frequency Coaxial SPD

General Information

The Bourns® Model 1977 Series Coaxial Surge Protective Device (SPD) has been designed to provide heavy duty protection for antennas, broadband, microwave, GPS, cellular and CATV applications against surges caused by lightning and other electrical transients.

Additional Information

Click these links for more information:











Electrical Characteristics

Characteristic	Model No.				
	1977-09-A00	1977-09-A01	1977-09-A02	1977-50-A01	
Frequency Range	DC-4 GHz				
DC Turn-On (Breakdown)	90-130 V		400-600 V		
Technology	Gas Discharge Tube				
Insertion Loss	≤0.2 db				
Return Loss	≥20 db				
VSWR	<1.2:1				
lpeak (8/20 μs)	20 kA				
Maximum Power	25 W			780 W	
Maximum Current	10 A				
Impedance	50 ohms ¹				

¹ Impedance for F-Type Connector is 75 ohms.

General Characteristics

Characteristic	Model No.					
	1977-09-A00	1977-09-A01	1977-09-A02	1977-50-A01		
Connection Method		Series (Bidirectional)				
Connectors	N, F					
Grounding	M6 Screw, Bulkhead, Bracket					
Weight	4.4 oz.					

Environmental Characteristics

Characteristic	Model No.				
Characteristic	1977-09-A00	1977-09-A01	1977-09-A02	1977-50-A01	
Environmental Rating	IP 65				
Operating Temperature	-50 °C to +85 °C				
Operating Altitude	13,000 ft. (4,000 m)				
Relative Humidity	Up to 5-95 % Non-condensing: Up to 100 %				

Specifications are subject to change without notice.

^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Applications

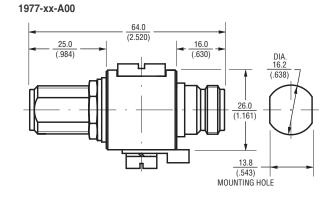
- Multi-point radio and backhaul bridges
- Tower Mounted Amplifiers (TMA)
- Antenna systems
- Tower Top Electronics (TTE)

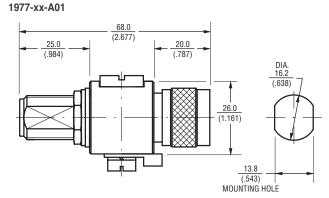
- Transmitters and receivers
- WiFi
- Wimax broadband wireless

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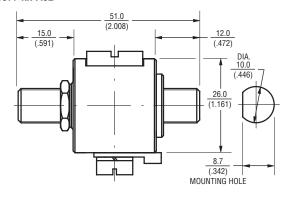
BOURNS

Product Dimensions





1977-xx-A02



DIMENSIONS: $\frac{MM}{(INCHES)}$

How To Order

Examples:

*Connector Type A00 and A02 not available for 1977-50 models.

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