

Features

- Heavy duty design
- High frequency DC-4 GHz
- DC Pass to ±48 V
- VSWR <1.2</p>
- Low insertion loss <0.1 dB</p>

1977 Series High Frequency Coaxial SPD

- Bidirectional
- Water resistant

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

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

Electrical Characteristics

Characteristic	Model No.		
	1977-09-xxx	1977-25-xxx	1977-50-xxx
Frequency Range	DC-4 GHz		
DC Turn-On (Breakdown)	90-130 V	200-300 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	190 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-xxx	1977-25-xxx	1977-50-xxx	
Connection Method		Series (Bidirectional)		
Connectors	N, F			
Grounding	M6 Screw, Bulkhead, Bracket			
Weight	4.4 oz.			

Environmental Characteristics

Characteristic	Model No.		
	1977-09-xxx	1977-25-xxx	1977-50-xxx
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 %		

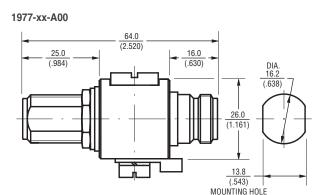
Applications

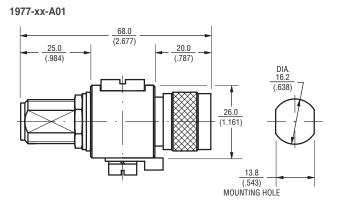
- Multi-point radio and backhaul bridges
- Tower Mounted Amplifiers (TMA)
- Antenna systems
- Tower Top Electronics (TTE)
- Transmitters and recievers
- WiFi
- Wimax broadband wireless

1977 Series High Frequency Coaxial SPD

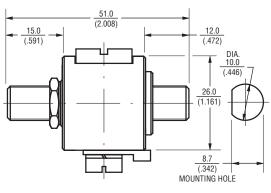
BOURNS®

Product Dimensions

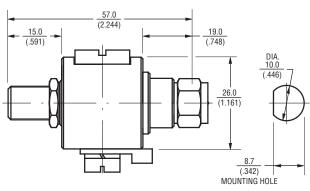




1977-xx-A02



1977-xx-A03



DIMENSIONS: (

1977 - xx - xxx

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

How To Order

Series
DC Turn-On
09 = 90-130 V
25 = 200-300 V

- 50 = 400-600 V
- Connector Type _____ A00 = N-type Female/Female
 - A01 = N-type Male/Female
 - A02 = F-type Female/Female
 - A03 = F-type Male/Female

NOTE: Shaded part numbers are currently available, but not recommended for new designs. See Product Obsolescence Memo.

1977-09-A01 1977-09-A02	Coax, DC to 4 GHz, N, FF, 25 W Coax, DC to 4 GHz, N, MF, 25 W Coax, DC to 4 GHz, F, FF, 25 W Coax, DC to 4 GHz, F, MF, 25 W
1977-25-A01 1977-25-A02	Coax, DC to 4 GHz, N, FF, 190 W Coax, DC to 4 GHz, N, MF, 190 W Coax, DC to 4 GHz, F, FF, 190 W Coax, DC to 4 GHz, F, MF, 190 W
1977-50-A01 1977-50-A02	

REV. 05/22

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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