

## **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\*
- (PL) 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.

### **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 <sup>1</sup>	

<sup>&</sup>lt;sup>1</sup> 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 %			

## **BOURNS**®

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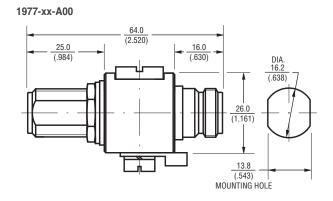
## **Applications**

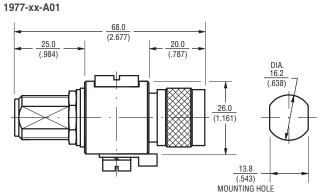
- Multi-point radio and backhaul bridges
- Tower Mounted Amplifiers (TMA)
- Antenna systems
- Tower Top Electronics (TTE)
- Transmitters and recievers
- WiF
- Wimax broadband wireless

# 1977 Series High Frequency Coaxial SPD

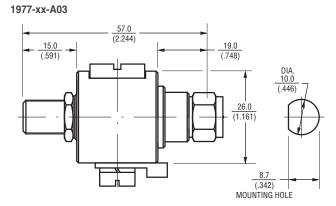
## BOURNS

### **Product Dimensions**





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DIMENSIONS:

#### MM (INCHES)

## **How To Order**

A00 = N-type Female/Female A01 = N-type Male/Female A02 = F-type Female/Female A03 = F-type Male/Female

Examples:	
1977-09-A00	
1977-09-A01	
1977-09-A02	
1977-09-A03	
1977-25-A00	
1977-25-A01	
1977-25-A02	
1977-25-A03	
1977-50-A00	
1977-50-A01	
1977-50-A02	
1977-50-A03	

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