

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.		
Characteristic	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

Model No.		
1977-09-xxx	1977-25-xxx	1977-50-xxx
	IP 65	
-50 °C to +85 °C		
	13,000 ft. (4,000 m)	
Up to 5-95 % Non-condensing: Up to 100 %		
	1977-09-xxx	1977-09-xxx 1977-25-xxx IP 65 -50 °C to +85 °C 13,000 ft. (4,000 m)

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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

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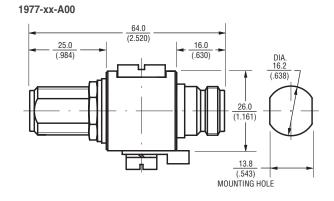
Applications

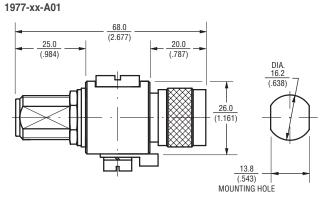
- Multi-point radio and backhaul bridges
- Tower Mounted Amplifiers (TMA)
- Antenna systems
- Tower Top Electronics (TTE)
- Transmitters and recievers
- WiF
- Wimax broadband wireless

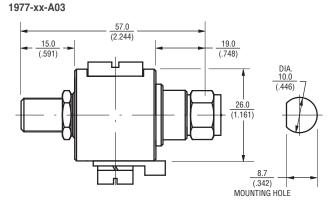
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BOURNS®

Product Dimensions







DIMENSIONS:

MM (INCHES)

Examples:

How To Order

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	
1977-25-A01 1977-25-A02	
1977-50-A01	

REV. 05/22

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