

Type N F/F In/Out Bulkhead Coax RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 20kA, Gas Discharge Tube, BiDirect



PE73SP1038

Features

- Surge current of 20kA
- Max Power 90W(RMS)
- Frequency range from DC to 7GHz
- N-type female connectors
- Waterproof IP67 rated
- DC Pass
- VSWR 1.6 max
- CE & RoHS compliant
- Bi-Directional

Applications

- WiFi
- GPS
- Land mobile radio

Description

RF surge protector (also known as lightning arrester) PE73SP1038 from Pasternack utilizing a proprietary gas tube surge protection technology protects critical hardware from lightening events while maintaining the RF performance. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. All Pasternack RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Surge Protector Type DC Handling	Gas Discharge Tube DC Pass			
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		7	GHz
Impedance		50		Ohms
VSWR			1.6:1	
Return Loss			13	dB
Insertion Loss			0.6	dB
Input Power, CW	90W @ 30MHz		90	Watts
	9W @ 3GHz			
Surge Current			20	kA
IEC 61000-4-5 8/20µs WAVEFORM				
Turn On Voltage		300		Volts
Sparkover Impulse Voltage		500		Volts
500 Volts @ 1000V/µs				
Sparkover Voltage (DC)		300 ±20%		
Holdover Voltage		80		Volts
80 Volts @ <150ms				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 4	4 to 6.5	6.5 to 7		GHz
VSWR, Max	1.1:1	1.2:1	1.4:1	1.6:1		

Type N F/F In/Out Bulkhead Coax RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 20kA, Gas Discharge Tube, BiDirect



PE73SP1038

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss, Typ						dB
Insertion Loss, Max	0.1	0.25	0.35	0.6		

Mechanical Specifications

Size	
Weight	0.1655 lbs [75.07 g]
Configuration	
Input Connector	N Female
Output Connector	N Female

Environmental Specifications

Temperature	
Operating Range	-55 to 85 deg C
Ingress Protection (IP) Rating	IP 67

Compliance Certifications

(see product page for current document)

Plotted and Other Data

Notes:

Type N F/F In/Out Bulkhead Coax RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 20kA, Gas Discharge Tube, BiDirect from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

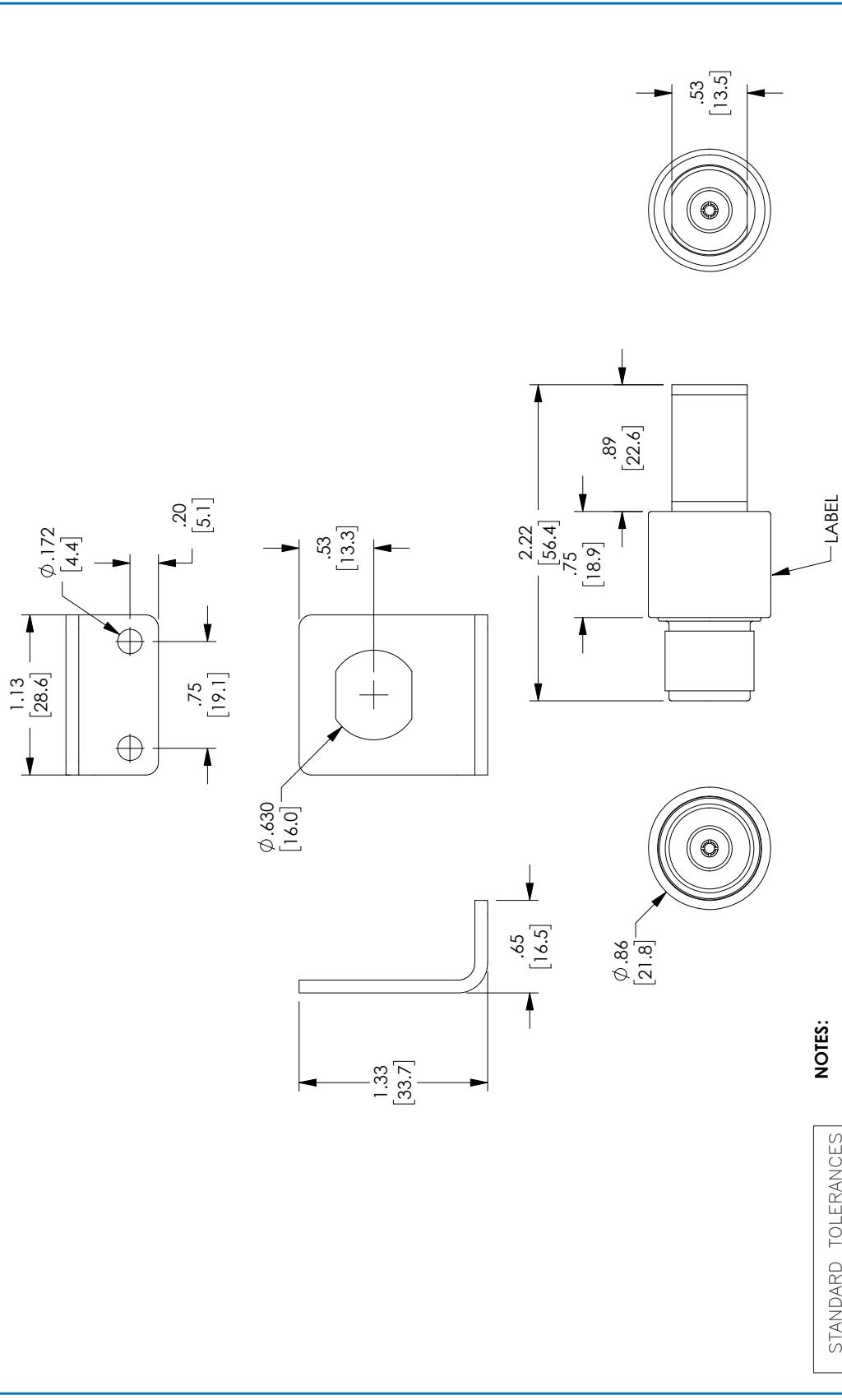
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Type N F/F In/Out Bulkhead Coax RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 20kA, Gas Discharge Tube, BiDirect PE73SP1038](#)

URL: <https://www.pasternack.com/type-n-surge-protector-7ghz-4ghz-gas-discharge-tube-pe73sp1038-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE73SP1038 CAD Drawing

Type N F/F In/Out Bulkhead Coax RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 20kA, Gas Discharge Tube, BiDirect



NOTES:		NOTES:	
STANDARD TOLERANCES		1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].	
.X ±0.2			
.XX ±0.01			
.XXX ±0.005		DWG TITLE	PE73SP1038
REGULATORY COMPLIANCE: CE2011/65/EU (RoHS DIRECTIVE)		CAGE CODE	53919
*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES		CAD FILE	3/23/18
LABEL		SCALE N/A	SIZE A
			256