

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 9W @ 3GHz			90	Watts
Surge Current IEC 61000-4-5 8/20µs WAVEFORM			20	kA
Turn On Voltage		300		Volts
Sparkover Impulse Voltage 500 Volts @ 1000V/µs		500		Volts
Sparkover Voltage (DC)		300 ±20%		
Holdover Voltage 80 Volts @ <150ms		80		Volts

**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		

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### 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:

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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

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