

# PulseGuard® Suppressors

## Connector Array Polymeric ESD Suppressors

### PGD Series ESD Suppressor

With similar performance features as the surface mount ESD products, the connector array products provide the first line of defense against ESD events. For use in standard D-Subminiatures, these suppressors intercept the ESD pulses before they enter the electronic equipment. The pulses are shunted to the grounded shell of the connector and kept off of the circuit board. The connector configuration takes up zero board space and can also be used as a retrofit solution in cases where the ESD problem was identified after the board design was complete.

#### Electrical Characteristics:

- Capacitance <2 pF<sup>1</sup>
- Leakage Current <0.1μA<sup>2</sup>
- Off state Resistance 10 MΩ<sup>2</sup>
- Clamping Voltage 100V3, typical
- Operating Voltage 24 VDC
- Peak Current 45A, at 15 kV
- Bi-directional
- Product Rated for 10,000 cycles

#### PHYSICAL SPECIFICATIONS:

**Body Material:** Polyimide

**Terminations:** Spring contacts

**Voltage Variable Material:** Littelfuse polymeric formula.

#### Soldering Parameters:

- Press-in fitting, soldering not necessary.

**Packaging:** Bulk, bagged and tagged.

#### ENVIRONMENTAL SPECIFICATIONS:

**Operating Temperature:** -65°C to 125°C

**Vibration:** Withstands 10-55Hz per MIL-STD-202F, Method 201A and 10-2000Hz at 20 G's per MIL-STD-202F, Method 204D, Condition D.

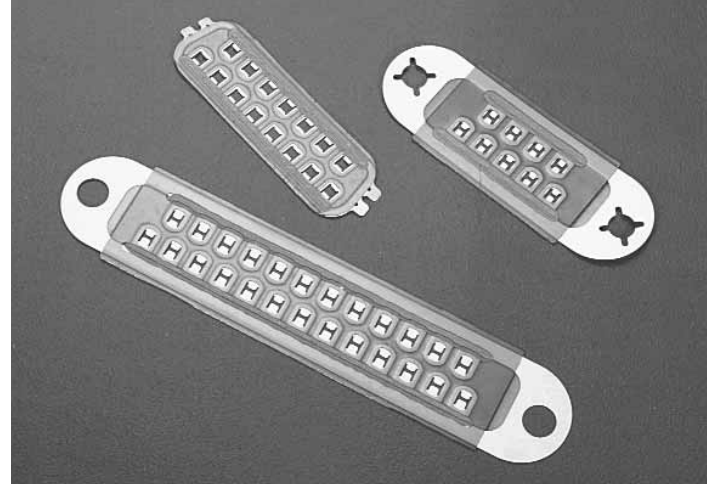
**Thermal Shock:** Withstands 5 cycles of -50°C to 125°C

#### ORDERING INFORMATION:

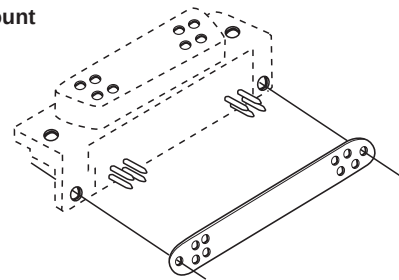
<sup>1</sup> Tested at 1 Megahertz

<sup>2</sup> Tested at 5 VDC

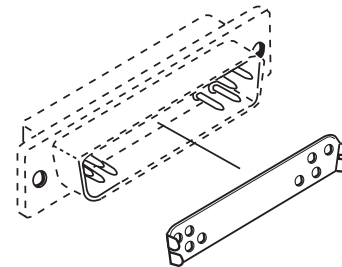
<sup>3</sup> Tested at 8 kV, Direct Contact, IEC 61000-4-2 ESD Waveform



90° Angle Mount



Front Mount



| Catalog Number  | Mounting Option | Number of Pins | Pin Size (in.) |
|-----------------|-----------------|----------------|----------------|
| PGD009S030BSA01 | 90° Angle       | 9              | 0.018 - 0.028  |
| PGD009S030CSA01 | 90° Angle       | 9              | 0.030 - 0.040  |
| PGD009S030CSF01 | Front           | 9              | 0.030 - 0.040  |
| PGD009S030BSR01 | Rear            | 9              | 0.018 - 0.028  |
| PGD015S030BSA01 | 90° Angle       | 15             | 0.018 - 0.028  |
| PGD015S030CSA01 | 90° Angle       | 15             | 0.030 - 0.040  |
| PGD015S030CSF01 | Front           | 15             | 0.030 - 0.040  |
| PGD015S030BSR01 | Rear            | 15             | 0.018 - 0.028  |
| PGD025S030BSA01 | 90° Angle       | 25             | 0.018 - 0.028  |
| PGD025S030CSA01 | 90° Angle       | 25             | 0.030 - 0.040  |
| PGD025S030CSF01 | Front           | 25             | 0.030 - 0.040  |
| PGD025S030BSR01 | Rear            | 25             | 0.018 - 0.028  |
| PGD037S030BSA01 | 90° Angle       | 37             | 0.018 - 0.028  |
| PGD037S030CSA01 | 90° Angle       | 37             | 0.030 - 0.040  |
| PGD037S030CSF01 | Front           | 37             | 0.030 - 0.040  |