

PIP Series

All Silicon Bi-directional Transient Voltage Suppressor



Features:

- ▶ All Silicon design provides the fastest transient response available. Less than one nanosecond.
- ▶ Rugged epoxy molded case with Printed Circuit Board mount solder pins.
- ▶ Powerful, high speed transient energy absorption up to 15 kW peak pulse power.
- ▶ Available in voltage ranges from 30 to 250 Volts AC, or 40 to 360 Volts DC.
- ▶ Can be Printed Circuit Board mount or Panel mounted.
- ▶ Hermetically sealed package for the most severe environments.
- ▶ Automatically reset after transient. No maintenance is required.
- ▶ Low profile package with mounting holes and solder type turrets for simple installation in new or existing designs.
- ▶ Effective low clamping voltages.

Applications:

The PIP Series is designed for “across the line” applications from 30 to 250 VAC. Typical applications include power supplies, PABX, communication equipment, CATV distribution systems, telecom equipment, computer systems, etc.

Select the PIP-120P for 120 VAC applications where added EMI/RFI filtering and Pigtail leads are desired.

Select the 15KP Series for PCB through hole applications.

Typical Installation:

Mount the PIP Series product on any convenient surface using a suitable sheet metal or machine screw through the 1/8” mounting holes provided. Solder connect the turret terminals provided “across the lines” requiring protection. Install the protector as near the equipment to be protected as possible and make certain the wires connecting the PIP to the “lines” are as short as possible.

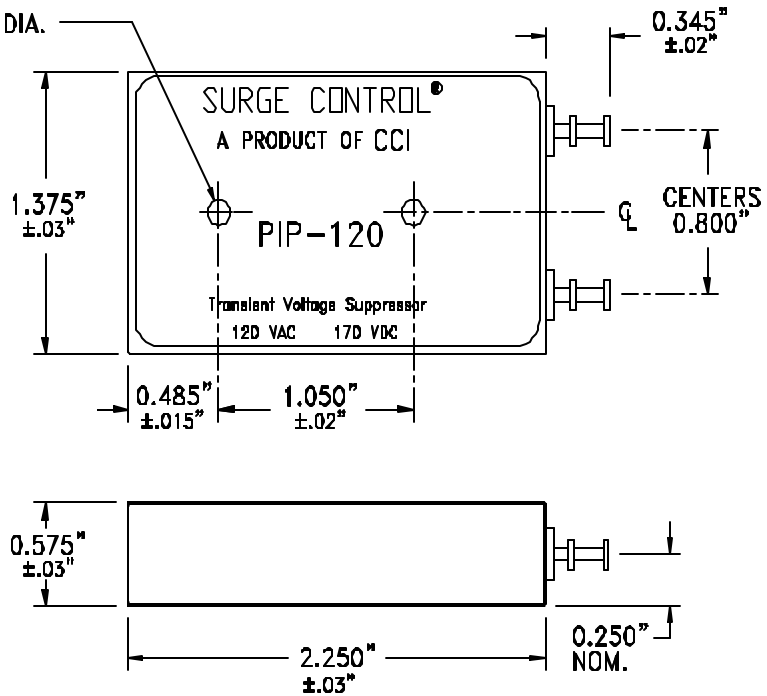
PIP Series Operating Specifications:

Specifications	PIP-30	PIP-60	PIP-120	PIP-250
RMS Operating Voltage	30 VAC	60 VAC	120 VAC	250 VAC
DC Operating Voltage	40 VDC	85 VDC	170 VDC	360 VDC
Minimum Breakdown Voltage @ 1mA	47.5 Volts	95 Volts	190 Volts	409 Volts
Maximum Breakdown Voltage @ 1mA	52.5 Volts	105 Volts	210 Volts	452 Volts
Maximum Clamping Voltage @ I _{peak}	72.5 V @ 103 A	145 V @ 103 A	277 V @ 54 A	593 V @ 25.3 A
Maximum Peak Power	7.5 kW	15 kW	15 kW	15 kW
Steady State Power Dissipation	10 Watts	10 Watts	10 Watts	10 Watts
Maximum Reverse Leakage	10 μA	10 μA	5 μA	5 μA

Consult the factory for other applications and operating conditions and specifications.
 Operating and Storage Temperature -65 Degrees Celsius to +150 Degrees Celsius.

Outline Dimensions:

Mounting holes, $\varnothing 0.125"$ NOM. DIA.



PIP-120 shown.
 Dimensions are the same for all models.

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