

ZOMM Series

(Zinc Oxide Military Modules)

ZOMM 301 & 301S Signal Line & EMP Filter



PD Devices Ltd manufacture a wide range of products to protect against the effects of high altitude detonation of Nuclear devices. The result of such an event is the generation of Electromagnetic Pulses which will induce a high voltage transient in exposed conductors.

The EMP can affect several thousands of square kilometres, with a magnitude of tens of kilovolts. This could result in serious damage to insulation, cause breakdown of semiconductors and the consequent malfunction of critical equipment.

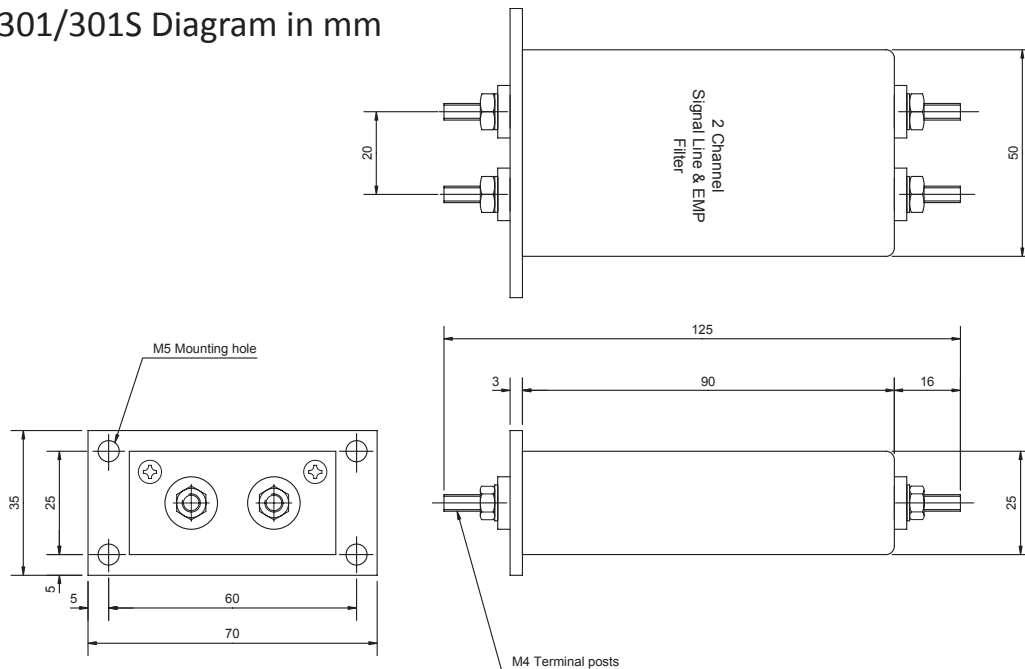
Most notable would be the failure of Energy Power Supply and Communications Systems. We offer products to satisfy protection for most applications



| Specification | |
|------------------------------------|---|
| No. of channels | (2) 1 x 600 ohm balanced pair. |
| Protection Standard | 25 kV prospective line to earth on input terminals clamped to 50V* crest on output terminals (line to earth) for 2/5 volt rating. |
| Max. Current Withstand | 10 kA 8/20µs line to earth (1 impulse) 6kA 8/20µs line to earth (50 impulses) |
| Energy Withstand | 100J 10/1000µs (1 impulse) 50J 10/1000µs (50 impulses) |
| Capacitance (typical) | 4nF |
| Response Time | <5nS |
| Upper Category Temp.(°C) | 85 (125 storage) |
| Lower Category Temp.(°C) | - 25 |
| Recommended Torque per M4 terminal | 1.3Nm (Ensure terminal does not rotate) |

* This parameter can be varied on other models

ZOMM 301/301S Diagram in mm



Revision: vPD3, 24/05/18
Information subject to change without notice.

PD Devices reserves the right to amend specifications in line with product development.

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application.

