

BRUMIL 245 - EMP-Protector Tel. Analog & ISDN 64-2048 kb/s

The efficient devices to protect telecommunication- and IT-equipment against the effects of EMP (Electromagnetic Pulses)

Applications:

- The BRUMIL 245 protects a pair of an analog or digital telephone line with data rates up to 2 Mbit/s. These devices safeguard effectively the inputs of sensitive electronics such as telecommunication equipment like telephones, modems or IT-equipment like routers, switches computers, etc. against damages caused by surge effects as lightning and EMP
- Best protection and filtering effect is achieved in a feed-through installation from an unprotected volume into a shielded and protected room
- The BRUMIL 245 is designed to be used in fixed installations (buildings, underground shelters etc.) as well as in portable and mobile systems like containers, shelters, and vehicles, whereby these mobile housings need to be EMP-tested according to RS105 of MIL-STD-461F
- Used in:
 - Analog or digital telecommunication networks
 - Modems for TCP/IP WAN/LAN networks
 - Harsh environment
 - Indoor
 - Military



- Special features of these protection circuit series, BRUMIL 245 include high surge current capability, compact feed-through design and a simple installation directly to the protected housing which works as a Faraday cage
- The BRUMIL 245 EMP-Protector Tel. Analog & ISDN is threat-level tested against EMP according to **MIL-STD-188-125**, short pulse and intermediate pulse

Dimensions:

Total length: 113 mm
Diameter: M22x1.5 mm

Description:

- The BRUMIL 245 Surge Protection Device offers a highly effective multi-stage protection design combined with filtering components
- It provides excellent protection against the effects of atmospheric discharges (lightning, electrostatic discharge) or a High Altitude Electro-Magnetic Pulse (HEMP), sometimes also referred to as Nuclear Electro-Magnetic Pulse (NEMP) or simply EMP

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Max. operating voltage peak signal	±150 V	Peak voltage between wire pair
Max. operating current	0.5 A	@ T _{amb} = 45°C
Data rate	2048 kb/s	POTS, ISDN, ADSL or HDSL
Max. surge current I _{Max}	2x10 kA	Each wire to ground/case, shape 8/20 µs, at least 1 pulse
Max. lightning impulse current I _{imp}	2x2 kA	Each wire to ground/case, shape 10/350 µs, at least 1 pulse
DC resistance input – output	2x0.5 Ohm	Each path
Residual voltage common mode	< 380 V	Wires to ground/case, pulse 4kV/2kA according to IEC61000-4-5
Residual voltage differential mode	< 380 V	Wire to wire, pulse 4 kV/2kA, according to IEC61000-4-5
Connection terminals	2.8/6.3 mm	Choice of FASTON flat receptacle, solder or screw connection
Case material	Steel	Stainless / nickel-plated
Max. allowed installation torque	25 Nm	Not to be exceeded under all circumstances
Dimensions	27x32x113 mm	1 nut M22x1.5 for feed-through installation
Weight	Approx. 180 g	Incl. 1 nut