

Series 3404

Miniature Gas Capsule Protectors

Description

SUHNER miniature gas capsule protectors are designed to protect against NEMP (Nuclear Electromagnetic Pulse) and other electromagnetic interferences.

The special design guarantees an excellent dynamic protection performance. It includes a fix integrated gas capsule.

Miniature gas capsule protectors have a bulkhead feed-through design and can be easily installed instead of a standard waterproof bulkhead coaxial connector to harden existing equipment.

For lightning protection there have to be applied different or at least additional further protectors.

Features

- Broadband DC to 2.0 GHz
- DC transmission
- Current-handling capability 2.5 kA
- Easy in-line or panel installation

Specifications

Electrical data	Requirements
RF:	
Impedance	50 Ω
Frequency range	DC to 2 GHz, according to product specification
RL	according to product specification
IL	according to product specification
RF power transmission	DC: 50 W 1 GHz: 25 W 2 GHz: 12 W
Protection:	
Surge-current-handling capability	2.5 kA multiple (8/20 μ s test pulse)

Mechanical data	Requirements
Coupling nut torque force	according to IEC/MIL
Durability (matings)	500 min.
Bulkhead mounting torque force:	
Mounting hole diameter	
19 mm/ 3/4" max.	20 Nm/14.7 ft-lb

Environmental data	Requirements/Test conditions
Operation temperature range	- 40 °C...+ 85 °C/ - 40 °F...+ 185 °F
Waterproof degree (IEC 529)	refer to product specification
Temperature shock	MIL-STD-202, Meth. 107 F, Cond. B, - 65 °C/+ 125 °C
Moisture resistance	MIL-STD-202, Meth. 106 D, 10 cycles
Vibration	MIL-STD-202, Meth. 204, Cond. D, 10-2000 Hz

Material data			
Component part	Standard	Material	Plating
Housings	QQ-B-626	brass	SUCOPLATE®
Male contacts	QQ-B-626	brass	gold plating
Female contacts	QQ-C-530	CuBe2	gold plating
Insulators	ASTM-D-1457	PTFE	
Gaskets	ASTM-E-1418 PS 1	silicone rubber	