

Series 3408

Gas Capsule Lightning Protectors with Integrated High-Pass Filter

Description

SUHNER gas capsule protectors with integrated high-pass filter feature an added useful RF component to the proven standard gas capsule protectors. Thus, they offer a much better protection performance.

The design allows a DC injection facility to be integrated as well.

Gas capsules can be easily exchanged for new operation conditions or replaced in the case of a necessary service.

Features

- Residual voltage reduced by 50% compared to standard gas capsule protectors of series 3401/2
- Residual energy reduced by 75 to 85%
- Decoupling between protector and possibly deployed, succeeding surge arresters or electronic components with low-voltage switching barrier as diodes or MOVs
- DC-blocking on protected side of the component
- DC injection facility products available

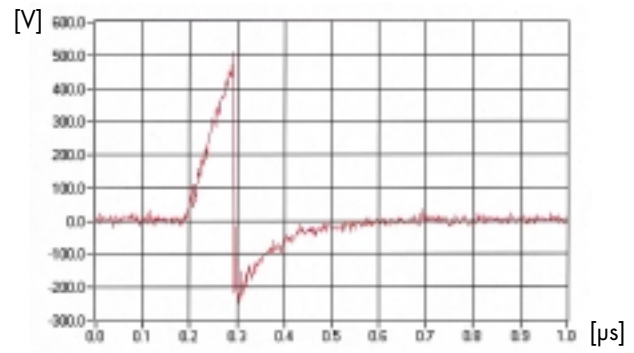
Specifications

Electrical data	Requirements
RF:	
Impedance	50 Ω
Frequency range	80 – 1000 MHz or 2000 MHz min.
RL*	20 dB min.
IL*	0.2 dB max.
PIM	dependent on selection of gas capsule
RF power transmission	according to selected gas capsule
Protection:	
Surge-current-handling capability	40 kA once and 20 kA multiple (8/20 μ s test pulse)
Residual pulse voltage and energy	for typical values refer to the following diagram

* with gas capsule 73 Z-0-0-47 (230 V)

Typical residual pulse for series 3408
(test pulse 4 kV/2 kA, 8/20 μ s):

Residual pulse voltage: 500 V
Residual pulse energy: 150 μ J



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
larger than 19 mm	35 Nm/25.8 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, data refer to the coupled state
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 or silver plating
Female contacts	QQ-C-530	CuBe2	gold or silver plating
Insulators	ASTM-D-1457	PTFE	
Gaskets	ASTM-E-1418 PS 1	silicone rubber	