



F Surge Suppressors 75 Ω

Telegärtner offers a wide range of surge suppressors for the protection of electronic devices. They are designed for use in coaxial transmission lines to suppress high surge impulses, which are typically generated by lightning strikes in the immediate vicinity. Typical applications for the F surge suppressors is in video monitoring / security systems, in head-end applications and outdoor broadcast vehicles.

The 2.7 GHz F Series gas discharge tube type suppressor functions by diverting high voltage surges from the centre conductor via the outer con-

ductor to earth. When a defined voltage on the centre conductor of the coaxial line is exceeded, the gas discharge tube positioned between the inner and outer conductor fires and shorts them. Advantages of this type of suppressor are the high discharge currents (up to 20 kA, 8/20 Impulse), availability with a variety of spark-over voltages from 75 V to 1000 V, and broad-band suitability (d.c. to 2.7 GHz). The gas discharge tube can be replaced during service checks.

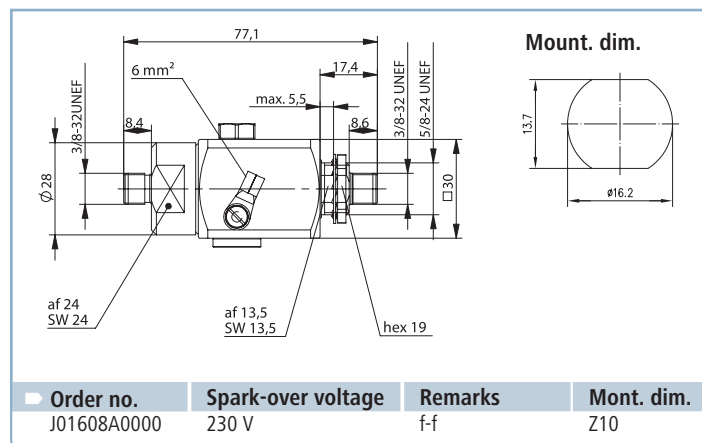
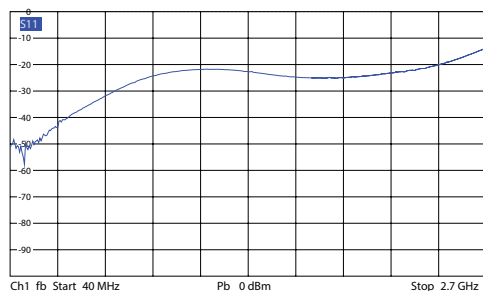
Technical Information

Frequency range	0 - 2.7 GHz
Impedance	75 Ω
Max. Power	25 W
Discharge current	500x100 A (10/1000 μs) 1x20 kA; 10x15 kA (8/20 μs)
Mating face	acc. to IEC 61169-24
Mating cycles	≥ 500
Operating temperature	-30° C / +100° C

Performance Characteristics

- Exchangable gas discharge tube
- Spark-over voltage 230 V
- Bulkhead type for bulkhead design
- Earth connection directly to the surge suppressor
- Panel sealed

Return loss up to 2.7 GHz



In addition to the 2.7 GHz F series surge suppressors, Telegärtner offers a wide range of lightning protection devices for a large variety of applications:

Type	Frequency range	Max. power	Max. discharge current	Series	IMP sensitive applications	Typical applications
2.5 GHz High-Performance-Suppressors with Gas Discharge Tube	0 - 2.5 GHz	300 W	1x40 kA 5x20 kA	N, 7-16	No	GSM, WLL, Tetra
6 GHz Compact-Suppressors with Gas Discharge Tube	0 - 6 GHz	25 W	1x10 kA 10x5 kA	SMA, R-SMA, TNC, R-TNC, N	No	WLAN, WLL
λ/4 Shorting Stubs	380 - 2500 MHz	500 W	100x100 kA	N, 7-16	Yes	GSM, PCS, UMTS, Tetra