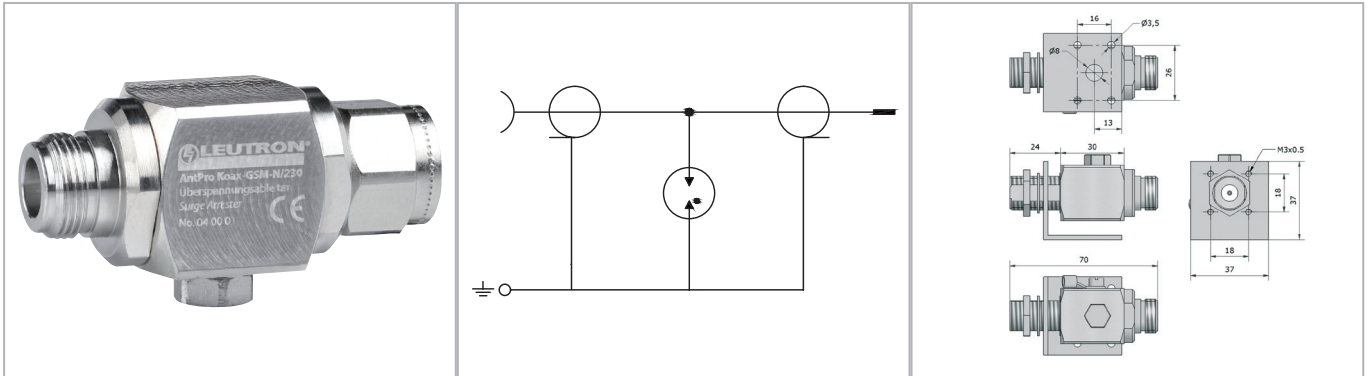


# Datasheet

## Surge protection for transmitting and receiving systems

### SPD with N connector



**High performance surge arrester for broadband applications with frequency ranges from DC up to 2.5 GHz. AntPro Koax-GSM-N was designed for the coarse protection of highly sensitive electrical HF amplifiers, e.g., for GSM aerial systems with GSM aerial cable RG213/U (max. 180 W at max. 1 GHz, Ø 10.5 mm).**

- Applicable at the boundaries LPZ 0B - 1 and higher
- Connector according to IEC 61169-16
- Test standard: IEC 61643-21 / EN 61643-21
- With holder (metal)
- Surge life: 300 x 200 A (10/1000 µs); 1 x 40 kA; 10 x 15 kA (8/20 µs); 20 A / 1 s at 50 Hz)

Technical Data		AntPro Koax-GSM-N/230
IEC category		C2 / C1 / C3
Max. continuous operating voltage DC/AC	Uc	115 V
DC spark-over voltage	Uas	230 V=
Nominal current	IL	≤ 2,5 A
C2 nominal discharge current (8/20 µs)	In	10 x 15 kA
Max. impulse discharge current (8/20 µs)	Imax	1 x 40 kA
Protection level line-earth at 1kV/µs and In	Up	≤ 700 V
Response time at 1 kV/µs	tA	< 50 ns
Max. aerial capacity (permanent HF capacity at VSWR = 1.1)	Pmax	280 W
Surge impedance	Z	50 Ω
Frequency range	f0	0 - 2500 MHz
Return loss	RL	typ.: 1 GHz: 30 dB / 2,5 GHz: 23 dB
Insertion loss	fE	typ.: 1 GHz < 0,1 dB / 2,5 GHz < 0,2 dB
Insulation resistance	Risol	≥ 5 GΩ
Vertical resistance inner conductor	R	≤ 2 mΩ
Vertical resistance outer conductor	R	≤ 0,5 mΩ
Operating temperature range	TU	-30° - +100 °C
Degree of protection (IEC EN 60529)		IP 67
Plug connector		N (m/f)
Material of spring		CuBe2
Materials: housing/insulation/sealing		CuZn39Pb3/PTFE/Silicon

### Order Data

Product	AntPro Koax-GSM-N/230
Article-No.	04 00 01