

COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology

3400.17.0377

Properties

- Maintenance-free products
- Highest current handling capability up to 100 kA max.
- Best PIM performance
- Available in several frequency ranges from 380MHz up until 18GHz
- Inertion loss not exceeding 0.2 dB max.



Product configuration

Main path connectors	Port 1: unprotected, N plug (male) Port 2: protected, N jack (female)
Mounting and grounding	M8 (screw), brk (bracket)
EMP can be install reversed	YES

Interface and material data

Housing material / plating	Brass / SUCOPLATE (R) Plating
Center contact, material / plating	Port 1: Brass / Gold Plating (without Nickel underplating) Port 2: Copper Beryllium Alloy / Gold Plating (without Nickel underplating)

Electrical data

Impedance	50 Ω
Frequency frame	806 MHz to 2500 MHz
Return loss typical	≥ 20.8 dB
Insertion loss typical	≤ 0.15 dB
CW power frame	≤ 500 W
Peak power frame	≤ 10000 W
Residual pulse energy (typ.)	5 μ J LEMP (test pulse 4 kV 1.2/50 μ s; 2 kA 8/20 μ s) 230 μ J (test pulse 20 kA 10/350 μ s)
Residual pulse voltage (typ.)	40 V (test pulse 20 kA 10/350 μ s)
Surge current handling capability	50 kA multiple (test pulse 8/20 μ s)

Electrical bands

	Range 1	Range 2
Frequency range	806 MHz ... 960 MHz	1710 MHz ... 2500 MHz
Return loss	≥ 26 dB	≥ 26 dB

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Electrical bands		
	Range 1	Range 2
Insertion loss	≤ 0.15 dB	≤ 0.15 dB
Power avg. / peak	≤1000 W / ≤10000 W	≤500 W / ≤10000 W
PIM 3rd order	-150 dBc typ.	-150 dBc typ.

Electrical remarks	
Gas tube	No DC / shorted QW or LC

Mechanical data	
Weight	372 g
Mating cycles	500

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	Mated / IP65
Ingress protection (comment)	according to IEC 60529
Thermal shock according	MIL-STD-202, Method 107, Cond. B
Vibration according	MIL-STD-202, Method 204, Cond. A
Moisture resistance according	MIL-STD-202, Method 106

Ordering Information Table	
Item number	Item description
23030189	3400.17.0377

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