

# COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology

3400.17.0387

## 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 jack (female) Port 2: protected, N jack (female)
Mounting and grounding	MH74 (bulkhead mounting), M8 (screw), brk (bracket)
Side of bulkhead	protected side

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

Electrical data	
Impedance	50 $\Omega$
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
PIM 3rd order	-150 dBc max.

Electrical bands		
	Range 1	Range 2
Frequency range	806 MHz ... 960 MHz	1710 MHz ... 2500 MHz
Return loss	26 dB	26 dB
Insertion loss	0.15 dB	0.15 dB
Power avg. / peak	1000 W / 10000 W	500 W / 10000 W

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Electrical bands		
	Range 1	Range 2
PIM 3rd order	-150 dBc typ.	-150 dBc typ.

  

Electrical remarks	
Surge current handling capability	50 multiple kA (test pulse 8/20 $\mu$ s)
Residual pulse energy	5 $\mu$ J typically (test pulse 4 kV 1.2/50 $\mu$ s / 2 kA 8/20 $\mu$ s) main path - protected side
Gas tube	No DC / shorted QW or LC

  

Mechanical data	
Weight	385 g
Mating cycles	500

  

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	IP67

  

Ordering Information Table	
Item number	Item description
23036708	3400.17.0387

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