

COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology, NEMP tested

3400.31.0023

Properties

- Ready for TETRA, sub-500 MHz communications and 3GPP band 71
- NEMP tested
- Maintenance-free products
- Highest current handling capability up to 100 kA max.
- Best PIM performance



Product configuration

Main path connectors	Port 1: unprotected, 4.3-10 plug (male) Port 2: protected, 4.3-10 jack (female)
Mounting and grounding	MH110 (bulkhead mounting), M8 (screw), brk (bracket)
Side of bulkhead	protected side
EMP can be install reversed	YES

Interface and material data

Housing material / plating	Brass / SUCOPLATE (R) Plating
Center contact, material / plating	Port 1: Brass / Silver Plating Port 2: Bronze / Silver Plating

Electrical data

Impedance	50 Ω
Frequency frame	380 MHz to 700 MHz
Return loss typical	≥ 18 dB
Insertion loss typical	≤ 0.1 dB
CW power frame	≤ 2500 W
Peak power frame	≤ 25 kW
PIM 3rd order	-150 dBc
Residual pulse energy (typ.)	5 μ J LEMP (test pulse 4 kV 1.2/50 μ s; 2 kA 8/20 μ s) 520 μ J NEMP (test pulse 10 kV 2.3/23 ns)
Residual pulse voltage (typ.)	11 V LEMP (test pulse 4 kV 1.2/50 ns; 2 kA 8/20 μ s) 2650 V NEMP (test pulse 10 kV 2.3/23 ns)
Surge current handling capability	100 kA single, 80 kA multiple (test pulse 8/20 μ s)

Electrical bands

	Band 1	Band 2
Frequency range	380 MHz ... 470 MHz	600 MHz ... 700 MHz

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Electrical bands		
	Band 1	Band 2
Return loss typical	≥ 20 dB	≥ 21 dB

Electrical remarks	
Gas tube	No DC / shorted QW or LC

Mechanical data	
Weight	573 g
Mating cycles	500

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	Mated / IP67, according to IEC 60529 (30 min of water, 1 m)
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
85215657	3400.31.0023

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