

COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology with integrated high-pass filter

3407.17.0089

Properties

- Residual voltage reduced by 80 % compared to standard types of series 3400
- Residual energy reduced of more than 99.9 % compared to series 3401 and 3402
- DC-blocking on protected side of the device
- Available for applications from 70 MHz to 18 GHz
- Return loss 20 dB min. and Insertion loss 0.2 dB max.
- Broad-band design
- Mounting screw set included
- Can also be installed reversely



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
EMP can be install reversed	YES

Interface and material data

Housing material / plating	Brass / SUCOPLATE (R) Plating
Center contact, material / plating	Port 1: Copper Beryllium Alloy / Gold Plating Port 2: Copper Beryllium Alloy / Gold Plating

Electrical data

Impedance	50 Ω
Frequency frame	74 MHz to 420 MHz
Return loss typical	23.1 dB
Insertion loss typical	0.15 dB
CW power frame	500 W
Residual pulse energy (typ.)	0.1 μJ LEMP (test pulse 4 kV 1.2/50 μs; 2 kA 8/20 μs)

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Electrical data

	0.3 µJ (test pulse 55 kA 8/20 µs) 0.6 µJ (test pulse 25 kA 10/350 µs)
Residual pulse voltage (typ.)	5 V LEMP (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs) 17 V (test pulse 55 kA 8/20 µs)
Surge current handling capability	50 V (test pulse 25 kA 10/350 µs) 50 kA multiple (test pulse 8/20 µs)

Electrical remarks

Gas tube	No DC / shorted QW or LC
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Mechanical data

Weight	680 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
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

Compliance

Item number	Directive / Regulation	Rating	Exemptions / Details
84147565	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead

Comment

	SPD acc. EN 61643-21 category D1, high energy test 20 kA, 10/350 µs Mounting screw set 9075.99.0108 included: (threaded stud M8, length 30mm, hexagonal nut M8, washer and tooth washer)
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Ordering Information Table

Item number	Item description
84147565	3407.17.0089

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