DATA SHEET

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

3407.17.0086

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
- NEMP tested
- DC-blocking on protected side of the device
- Space saving inline design
- Broad-band design



Product configuration	
Main path connectors	Port 1: unprotected, N jack (female)
	Port 2: protected, N jack (female)
Mounting and grounding	MH71 (bulkhead mounting)
Side of bulkhead	unprotected side
Inline design	YES
EMP can be install reversed	YES

Interface and material data	
Housing material / plating	Aluminium
Center contact, material / plating	Port 1: Bronze / Gold Plating
	Port 2: Bronze / Gold Plating

Electrical data	
Impedance	50 Ω
Frequency frame	690 MHz to 2700 MHz
Return loss typical	≥ 24 dB
Insertion loss typical	≤ 0.15 dB
CW power frame	≤ 260 W
PIM 3rd order	-150 dBc typ.
Residual pulse energy (typ.)	0.5 nJ LEMP (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs)
	7 µJ NEMP (test pulse 6 kV 5/200 ns)
Residual pulse voltage (typ.)	1.5 V LEMP (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs)
	250 V NEMP (test pulse 6 kV 5/200 ns)
Surge current handling capability	20 kA single, 10 kA multiple (test pulse 8/20 µs)

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Electrical bands	
	Range 1
Frequency range	690 MHz ... 2500 MHz
Return loss typical	≥ 26 dB
Insertion loss	≤ 0.15 dB
PIM 3rd order	-150 dBc typ.

Electrical remarks	
Gas tube	No DC / shorted QW or LC

Mechanical data	
Weight	64 g
Mating cycles	50

Environmental data	
Operation temperature	-40 °C ... 85 °C
Storage temperature	-40 °C ... 85 °C
Ingress protection (IP Rating)	Mated / IP68, 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
84099040	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	
	RF CW power @ 920 MHz <= 500 W or RF CW power @ 2.7 GHz <= 260 W

Ordering Information Table	
Item number	Item description
84099040	3407.17.0086

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