Data Sheet

EMP Protector
3407.17.0086

Description

Quarter-wave stub technology with integrated high-pass filter

Benefits
Broad-band design
Space saving inline design
Compliant to IEC 61643-21

Product Configuration

Main path connectors	Port 1: unprotected, N jack (female) - Port 2: protected, N jack (female)
Mounting and grounding	MH71 (bulkhead mounting), brk (bracket)
Side of bulkhead	unprotected side
Design speciality	inline design

Technical Data

Electrical Data

Impedance	50 Ω	
Frequency range	690 - 2700 MHz	690 - 2500 MHz
Return loss	≥ 24 dB	≥ 26 dB
Insertion loss	≤ 0.15 dB	≤ 0.15 dB
RF CW power	≤ 260 W	
PIM 3rd order	-150 dBc typ.	-150 dBc typ.

Surge current handling capability	20 single / 10 multiple kA (test pulse 8/20 µs)
Residual pulse energy	0.001 µJ typically (test pulse 4 kV 1.2/50 µs / 2 kA 8/20 µs) main path - protected side

Mechanical Data

Number of matings	50
Weight	50.7 g

Environmental Data

Operating temperature	-40 °C to +85 °C
Waterproof degree	IP 68 (according to IEC 60529, data refer to the coupled state)
2011/65/EU (RoHS)	Compliant exempt. 7(b)

Material Data

Piece Parts	Material	Surface Plating
Housing	Aluminium	
Port 1 center contact	Bronze	Gold Plating
Port 2 center contact	Bronze	Gold Plating

Related Documents

Outline drawing	DOU-00164037
Mounting instruction	DOC-0000176104

Remarks

RF CW power @ 920 MHz <= 500 W or RF CW power @ 2.7 GHz <= 260 W
Recommendation: if this protector is mated with connectors made of copper-alloy base material and trimetal or nickel plating the connector area must be taped to improve long-term durability.

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