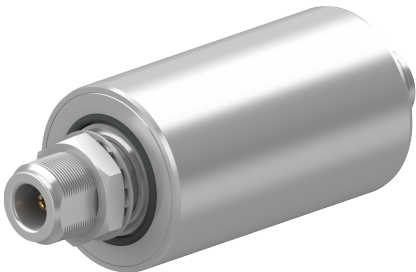


High Power RF Limiter for HF, Limiting Threshold 41 dBm

9078.17.0013

Properties

- 2-stage high power RF Limiter up to 67 dBm
- Threshold level 41 dBm
- Linear broad-band operation
- Minimum residual pulse energy



Product configuration	
Main path connectors	Port 1: unprotected, N jack (female) Port 2: protected, N jack (female)
Mounting and grounding	MH12 (bulkhead mounting)
Side of bulkhead	protected side
Interface and material data	
Housing material / plating	Aluminium
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 Ω
Frequency frame	100 kHz to 32 MHz
Return loss typical	≥ 18 dB
Insertion loss typical	≤ 0.5 dB
CW power frame	≤ 25 W
Peak power frame	≤ 5 kW
Limiting threshold	41 dBm
IM limits (linear operation)	IP3 > 50 dBm
Residual pulse energy (typ.)	30 μJ NEMP (test pulse 6 kV 5/200 ns)
	300 μJ LEMP (test pulse 4 kV 1.2/50 μs; 2 kA 8/20 μs)
Surge current handling capability	10 kA single, 5 kA multiple (test pulse 8/20 μs)
Response time	< 100 ns

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Electrical remarks			
Electrical remarks		RF peak power: max. 67 dBm (5 kW pulse, 10 us duration, 0.5% duty cycle), during max. 10 sec.	
		Average power: ≤ 44 dBm (≤ 25 W)	
		Limiting threshold: 40 dBm - 41 dBm (10W - 12.6 W)	
Mechanical data			
Weight		134 g	
Mating cycles		100	
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	
Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84111408	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			
		NATO Stock Number 5895-01-624-3840	
NATO Stock Number		5895-01-624-3840	
Ordering Information Table			
Item number		Item description	
84111408		9078.17.0013	

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