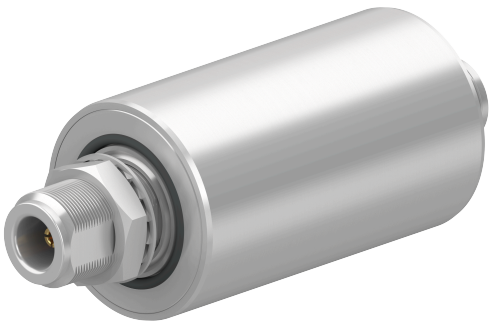


High Power RF Limiter for HF, Limiting Threshold 12 dBm

9078.17.0015

Properties

- 2-stage high power RF Limiter up to 60 dBm
- Threshold level 12 dBm
- Linear broad-band operation
- Minimum residual pulse energy



| Product configuration  |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| Main path connectors   | Port 1: unprotected, N jack (female)<br>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 50 MHz                                     |
| Return loss typical               | ≥ 20 dB                                               |
| Insertion loss typical            | ≤ 0.7 dB                                              |
| CW power frame                    | ≤ 25 W                                                |
| Peak power frame                  | ≤ 1 kW                                                |
| Limiting threshold                | 12 dBm                                                |
| Residual pulse energy (typ.)      | 2 μJ NEMP (test pulse 6 kV 5/200 ns)                  |
|                                   | 1.7 μJ LEMP (test pulse 4 kV 1.2/50 μs; 2 kA 8/20 μs) |
| Residual pulse voltage (typ.)     | 120 V NEMP (test pulse 6 kV 5/200 ns)                 |
|                                   | 10 V 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. 60 dBm (1 kW pulse, 10 us duration, 0.5 % duty cycle), during max. 10 sec. |
|                    | Average power: ≤ 44 dBm (≤ 25 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 |
| 85071589    | 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  |

| Ordering Information Table |                  |
|----------------------------|------------------|
| Item number                | Item description |
| 85071589                   | 9078.17.0015     |

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