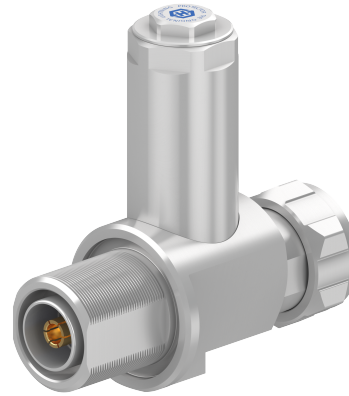


# COAXIAL SURGE PROTECTOR DEVICE, High-power/low-IM GDT hybrid technology

3409.41.0092

## Properties

- DC continuity for remote powering
- RF peak power not limited by gas discharge tube
- Excellent low PIM performance; Ideal for multicarrier systems
- Availability for application bands between 380 MHz and 18 GHz
- Gas discharge tube installed



## Product configuration

|                             |                                                                                |
|-----------------------------|--------------------------------------------------------------------------------|
| Main path connectors        | Port 1: unprotected, 7/16 plug (male)<br>Port 2: protected, 7/16 jack (female) |
| Mounting and grounding      | MH110 (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: Brass / Silver Plating<br>Port 2: Bronze / Silver Plating |

## Electrical data

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| Impedance                         | 50 $\Omega$                                                     |
| Frequency frame                   | 690 MHz to 2690 MHz                                             |
| Return loss typical               | 26 dB                                                           |
| Insertion loss typical            | 0.1 dB                                                          |
| CW power frame                    | 1500 W                                                          |
| PIM 3rd order                     | -160 dBc max.                                                   |
| AISG frequency                    | 10 MHz                                                          |
| AISG return loss                  | 18 dB                                                           |
| AISG insertion loss               | 0.1 dB                                                          |
| Residual pulse energy (typ.)      | 250 $\mu$ J (test pulse 4 kV 1.2/50 $\mu$ s; 2 kA 8/20 $\mu$ s) |
| Surge current handling capability | 30 kA single, 20 kA multiple (test pulse 8/20 $\mu$ s)          |

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| Electrical remarks             |                                   |                                                        |                      |
|--------------------------------|-----------------------------------|--------------------------------------------------------|----------------------|
| DC supply voltage              |                                   | 48 V                                                   |                      |
| DC current                     |                                   | 13 A                                                   |                      |
| Gas tube                       |                                   | Yes DC, GDT included, replaceable, 9071.99.0548 (90 V) |                      |
|                                |                                   |                                                        |                      |
| Mechanical data                |                                   |                                                        |                      |
| Weight                         |                                   | 495 g                                                  |                      |
| Mating cycles                  |                                   | 500                                                    |                      |
|                                |                                   |                                                        |                      |
| Environmental data             |                                   |                                                        |                      |
| Operation temperature          |                                   | -40 °C ... 85 °C                                       |                      |
| Storage temperature            |                                   | -40 °C ... 85 °C                                       |                      |
| Ingress protection (IP Rating) |                                   | IP67                                                   |                      |
| 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 |
| 84150561                       | 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                                       |                      |
| 84150561                       |                                   | 3409.41.0092                                           |                      |

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