

# COAXIAL SURGE PROTECTOR DEVICE, GDT technology with integrated high-pass filter for NEMP protection

3408.17.0005

## Properties

- NEMP tested
- Residual energy reduced by 60 % compared to series 3401/3402
- Residual voltage reduced by 40 % compared to series 3401/3402
- DC-blocking on protected side of the device
- Gas discharge tube replaceable



## Product configuration

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| Main path connectors   | Port 1: unprotected, N jack (female)<br>Port 2: protected, N jack (female) |
| Mounting and grounding | MH25 (bulkhead mounting)                                                   |
| Side of bulkhead       | protected side                                                             |

## Interface and material data

|                                    |                                                                             |
|------------------------------------|-----------------------------------------------------------------------------|
| Housing material / plating         | Brass / SUCOPLATE (R) Plating                                               |
| 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 $\Omega$                                                                                                        |
| Frequency frame                   | 25 MHz to 2500 MHz                                                                                                 |
| Return loss typical               | $\geq 20$ dB                                                                                                       |
| Insertion loss typical            | $\leq 0.2$ dB                                                                                                      |
| CW power frame                    | $\leq 150$ W                                                                                                       |
| Residual pulse energy (typ.)      | 150 $\mu$ J LEMP (test pulse 4 kV 1.2/50 $\mu$ s; 2 kA 8/20 $\mu$ s)<br>90 $\mu$ J NEMP (test pulse 6 kV 5/200 ns) |
| Residual pulse voltage (typ.)     | 1260 V NEMP (test pulse 6 kV 5/200 ns)                                                                             |
| Surge current handling capability | 30 kA single, 20 kA multiple (test pulse 8/20 $\mu$ s)                                                             |

## Electrical remarks

|                    |                                       |
|--------------------|---------------------------------------|
| Gas tube           | No DC, GDT not included               |
| Electrical remarks | Data refer to GDT 9071.99.0547, 230 V |

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| Mechanical data                |                                      |
|--------------------------------|--------------------------------------|
| Weight                         | 130 g                                |
| Mating cycles                  | 500                                  |
| Environmental data             |                                      |
| Operation temperature          | -40 °C ... 85 °C                     |
| Storage temperature            | -40 °C ... 85 °C                     |
| Ingress protection (IP Rating) | Mated / IP65, according to IEC 60529 |
| Thermal shock according        | MIL-STD-202, Method 107, Cond. B     |
| Vibration according            | MIL-STD-202, Method 204, Cond. D     |
| Moisture resistance according  | MIL-STD-202, Method 106              |
| Ordering Information Table     |                                      |
| Item number                    | Item description                     |
| 22652510                       | 3408.17.0005                         |

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