

# COAXIAL SURGE PROTECTOR DEVICE, GDT technology up to 2.5 GHz

## 3402.17.A

### Properties

- Broadband frequency operation from DC to 2.5 GHz
- Gas discharge tube replaceable and not included
- DC/AC remote powering via coaxial same cable
- Surge current handling capability 30 kA once and 20 kA multiple
- Semper self-extinguishing functionality optional



### 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                   | 0 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.)      | 350 $\mu$ J (test pulse 4 kV 1.2/50 $\mu$ s; 2 kA 8/20 $\mu$ s) |
| Residual pulse voltage (typ.)     | 650 V (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)          |

### Electrical remarks

|                    |                                       |
|--------------------|---------------------------------------|
| Gas tube           | Yes DC, GDT not included              |
| Electrical remarks | Data refer to GDT 9071.99.0547, 230 V |

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| Mechanical data                |                                  |
|--------------------------------|----------------------------------|
| Weight                         | 126 g                            |
| Mating cycles                  | 500                              |
| Environmental data             |                                  |
| Operation temperature          | -40 °C ... 85 °C                 |
| Storage temperature            | -40 °C ... 85°C                  |
| Ingress protection (IP Rating) | IP66                             |
| 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          |
| Comment                        |                                  |
| NATO Stock Number              | 5920-99-773-3078                 |
|                                | 5920-17-105-4779                 |
|                                | 5920-01-421-4919                 |
| Ordering Information Table     |                                  |
| Item number                    | Item description                 |
| 22642811                       | 3402.17.A                        |

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