DATA SHEET

# COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology with integrated high-pass filter

3407.41.0052

## Properties

- Residual voltage reduced by 80 % compared to standard types of series 3400
- Residual energy reduced of more than 99.9 % compared to series 3401 and 3402
- DC-blocking on protected side of the device
- Available for applications from 70 MHz to 18 GHz
- Return loss 20 dB min. and Insertion loss 0.2 dB max.
- Broad-band design
- Space saving desing
- Multi-band operation



| Product configuration | |
|---|---|
| Main path connectors | Port 1: unprotected, 7/16 jack (female)<br>Port 2: protected, 7/16 jack (female) |
| Mounting and grounding | MH110 (bulkhead mounting), M6 (screw) |
| Side of bulkhead | protected side |
| Inline design | YES |
| 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 Ω |
| Frequency frame | 690 MHz to 2700 MHz |
| Return loss typical | 23 dB |
| Insertion loss typical | 0.1 dB |
| CW power frame | 500 W |
| PIM 3rd order | -155 dBc typ. |
| Residual pulse energy (typ.) | 0.03 µJ (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs) |

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| Electrical data | |
|---|---|
| Surge current handling capability | 25 kA single, 20 kA multiple (test pulse 8/20 µs) |

| Electrical bands | |
|---|---|
| | **Range 1** |
| Frequency range | 690 MHz ... 2500 MHz |
| Return loss typical | 26 dB |
| Insertion loss | 0.1 dB |
| Power avg. / peak | 500 W / - |
| PIM 3rd order | -150 dBc typ. |

| Electrical remarks | |
|---|---|
| Gas tube | No DC / shorted QW or LC |

| Mechanical data | |
|---|---|
| Weight | 621 g |
| Mating cycles | 500 |

| 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 |
| Moisture resistance according | MIL-STD-202, Method 106 |

| Compliance | | | |
|---|---|---|---|
| Item number | Directive / Regulation | Rating | Exemptions / Details |
| 85003727 | 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 |
| 85003727 | 3407.41.0052 |

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