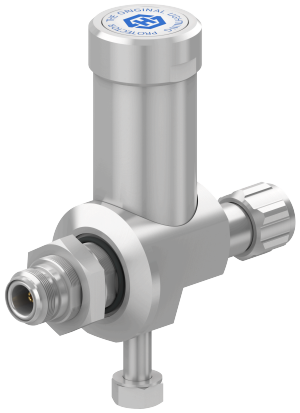
DATA SHEET

# COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology

3400.17.0431

## Properties

- Maintenance-free products
- Highest current handling capability up to 100 kA max.
- Best PIM performance
- Available in several frequency ranges from 380MHz up until 18GHz
- Inertion loss not exceeding 0.2 dB max.



| Product configuration | |
|---|---|
| Main path connectors | Port 1: unprotected, N plug (male)<br>Port 2: protected, N jack (female) |
| Mounting and grounding | MH170 (bulkhead mounting), M8 (screw), brk (bracket) |
| Side of bulkhead | protected side |
| Mounting set included | 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 / Gold Plating (without Nickel underplating)<br>Port 2: Copper Beryllium Alloy / Gold Plating (without Nickel underplating) |

| Electrical data | |
|---|---|
| Impedance | 50 Ω |
| Frequency frame | 690 MHz to 2200 MHz |
| Return loss typical | 23 dB |
| Insertion loss typical | 0.15 dB |
| CW power frame | 500 W |
| PIM 3rd order | -150 dBc max. |
| Residual pulse energy (typ.) | 10 µJ (test pulse 4 kV 1.2/50 µs; 2 kA 8/20 µs) |
| Surge current handling capability | 50 kA multiple (test pulse 8/20 µs) |

| Electrical bands | | |
|---|---|---|
| | **Range 1** | **Range 2** |
| Frequency range | 690 MHz ... 960 MHz | 1700 MHz ... 2200 MHz |
| Return loss typical | 24 dB | 24 dB |

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| Electrical bands | | |
|---|---|---|
| | **Range 1** | **Range 2** |
| Insertion loss | 0.15 dB | 0.15 dB |
| Power avg. / peak | 500 W / - | 500 W / - |
| PIM 3rd order | -150 dBc max. | -150 dBc max. |

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

| Mechanical data | |
|---|---|
| Weight | 440 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 |
| 84080266 | 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 |
| 84080266 | 3400.17.0431 |


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