

**COAXIAL FIXED ATTENUATOR, 50 Ohm, 4 dB, N**

6804\_N-50-1/1--\_N

**Properties**

- Wide range of interfaces
- Fixed attenuation level from 0 dB up to 40 dB
- 50  $\Omega$  or 75  $\Omega$  impedance
- Various bandwidth to improve the impedance matching between subsystems of its waveform
- Used in many test and measurement and communication applications.

**Product configuration**

| Interface | Gender        | Standard                                 |
|-----------|---------------|------------------------------------------|
| N         | plug (male)   | IEC 60169-16_MIL-STD-348A/304_CECC 22210 |
| N         | jack (female) | IEC 60169-16_MIL-STD-348A/304_CECC 22210 |

**Electrical data**

|                     |                 |
|---------------------|-----------------|
| Impedance           | 50 $\Omega$     |
| Operating frequency | 0 GHz ... 6 GHz |
| Attenuation nominal | 4 dB            |
| VSWR                | 1.25            |
| Return loss         | 19.1 dB         |

**Electrical Data (frequency related)**

| Frequency range | Attenuation deviation | VSWR max |
|-----------------|-----------------------|----------|
| 0 GHz to 6 GHz  | +/- 0.3 dB            | 1.25     |

**Electrical Data (power)**

|               |                                                                                            |
|---------------|--------------------------------------------------------------------------------------------|
| Average power | 2 W at 25 °C ambient temperature. Linearly derated to 0.2 W at 100 °C ambient temperature. |
| Peak power    | 250 W, 5 $\mu$ s pulse width, 0.4 % duty cycle                                             |

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| Interface and material data |                        |                   |
|-----------------------------|------------------------|-------------------|
| Interface                   | N / plug (male)        |                   |
| <b>Piece parts</b>          | <b>Material</b>        | <b>Plating</b>    |
| Centre contact              | Copper Beryllium Alloy | Gold Plating      |
| Outer conductor             | Brass                  | Tri-metal Plating |
| Body                        | Brass                  | Tri-metal Plating |
| Insulator                   | PEI (Polyether-imide)  |                   |
| Coupling nut                | Brass                  | Tri-metal Plating |
| Gasket                      | VMQ (Silicone rubber)  |                   |
| Interface                   | N / jack (female)      |                   |
| <b>Piece parts</b>          | <b>Material</b>        | <b>Plating</b>    |
| Centre contact              | Copper Beryllium Alloy | Gold Plating      |
| Outer conductor             | Brass                  | Tri-metal Plating |
| Body                        | Brass                  | Tri-metal Plating |
| Insulator                   | PEI (Polyether-imide)  |                   |

| Mechanical data |          |
|-----------------|----------|
| Weight          | 0.055 kg |

| Environmental data    |                  |
|-----------------------|------------------|
| Operation temperature | -55 °C ... 125°C |

| Ordering Information Table |                    |
|----------------------------|--------------------|
| Item number                | Item description   |
| 85177127                   | 6804_N-50-1/1--_NE |

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