

COAXIAL FIXED ATTENUATOR, 50 Ohm, 1 dB, N

6801.17.A

Properties

- Wide range of interfaces
- Fixed attenuation level from 0 dB up to 40 dB
- 50 Ω or 75 Ω 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 Ω
Operating frequency	0 GHz ... 12.4 GHz
Attenuation nominal	1 dB
VSWR	1.35
Return loss	16.5 dB

Electrical Data (frequency related)

Frequency range	Attenuation deviation	VSWR max
0 GHz to 3 GHz	+/- 0.3 dB	1.1
3 GHz to 8 GHz	+/- 0.3 dB	1.2
8 GHz to 10 GHz	+/- 0.5 dB	1.2
10 GHz to 12.4 GHz	+/- 0.5 dB	1.35

Electrical Data (power)

Average power	2 W at 30 °C ambient temperature. Linearly derated to 0 W at 130 °C ambient temperature.
Peak power	500 W, 5 μ s pulse width, 0.05 % duty cycle

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Interface and material data		
Interface	N / plug (male)	
Piece parts	Material	Plating
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Brass	Gold Plating
Body	Brass	SUCOPLATE (R) Plating
Insulator	PFA / PTFE	
Coupling nut	Brass	SUCOPLATE (R) Plating
Gasket	VMQ (Silicone rubber)	
Interface	N / jack (female)	
Piece parts	Material	Plating
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Brass	Gold Plating
Body	Brass	SUCOPLATE (R) Plating
Insulator	PFA / PTFE	

Environmental data	
Operation temperature	-55 °C ... 130°C

Ordering Information Table	
Item number	Item description
22641535	6801.17.A

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DOCUMENT PIM-P1650 / Date of publication: 23.11.2023 / uncontrolled copy