

COAXIAL FIXED ATTENUATOR, 50 Ohm, 30 dB, BNC

6830.01.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
BNC	plug (male)	IEC 60169-8_MIL-STD-348A/301_CECC 22120
BNC	jack (female)	IEC 60169-8_MIL-STD-348A/301_CECC 22120

Electrical data

Impedance	50 Ω
Operating frequency	0 GHz ... 4 GHz
Attenuation nominal	30 dB
VSWR	1.2
Return loss	20.8 dB

Electrical Data (frequency related)

Frequency range	Attenuation deviation	VSWR max
0 GHz to 2 GHz	+/- 1 dB	1.1
2 GHz to 4 GHz	+/- 1 dB	1.2

Electrical Data (power)

Average power	1 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
Electrical remarks	Peak voltage max. 160V (50 Ohm)

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

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

Ordering Information Table	
Item number	Item description
22550181	6830.01.A

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