

**COAXIAL FIXED ATTENUATOR, 50 Ohm, 6 dB, BNC**

6806.01.A

**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
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 $\Omega$
Operating frequency	0 GHz ... 4 GHz
Attenuation nominal	6 dB
VSWR	1.2
Return loss	20.8 dB

Electrical Data (frequency related)		
Frequency range	Attenuation deviation	VSWR max
0 GHz to 2 GHz	+/- 0.3 dB	1.1
2 GHz to 4 GHz	+/- 0.5 dB	1.2

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 $\mu$ s pulse width, 0.05 % duty cycle
Electrical remarks	Peak voltage max. 160V (50 Ohm)

**COAXIAL FIXED ATTENUATOR, 50 Ohm, 6 dB, BNC**

6806.01.A

<b>Interface and material data</b>		
Interface	BNC / plug (male)	
<b>Piece parts</b>	<b>Material</b>	<b>Plating</b>
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)	
<b>Piece parts</b>	<b>Material</b>	<b>Plating</b>
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Brass	SUCOPLATE (R) Plating
Body	Brass	SUCOPLATE (R) Plating
Insulator	PFA / PTFE	

<b>Mechanical data</b>	
Weight	25 g

<b>Environmental data</b>	
Operation temperature	-55 °C ... 130°C

<b>Ordering Information Table</b>		
Item number	Item description	Packaging type
22550178	6806.01.A	Single

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.

DOCUMENT PIM-P1632 / Date of publication: 23.11.2023 / uncontrolled copy