

COAXIAL FIXED ATTENUATOR, 50 Ohm, 6 dB, 7/16

5906.41.0001

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
7/16	plug (male)	IEC 60169-4_CECC 22190_DIN 47223_VG 95250
7/16	jack (female)	IEC 60169-4_CECC 22190_DIN 47223_VG 95250

Electrical data

Impedance	50 Ω
Operating frequency	0 GHz ... 6 GHz
Attenuation nominal	6 dB
VSWR	1.35
Return loss	16.5 dB

Electrical Data (frequency related)

Frequency range	Attenuation deviation	VSWR max
0 GHz to 1 GHz	+/- 0.3 dB	1.1
1 GHz to 2 GHz	+/- 0.3 dB	1.15
2 GHz to 4 GHz	+/- 0.3 dB	1.25
4 GHz to 6 GHz	+/- 0.5 dB	1.35

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Electrical Data (power)	
Average power	10 W at 30 °C ambient temperature. Linearly derated to 0 W at 130 °C ambient temperature.
Peak power	500 W, 5 µs pulse width, 0.05 % duty cycle
Electrical remarks	Peak voltage max. 160V (50 Ohm)

Interface and material data		
Interface	7/16 / plug (male)	
Piece parts	Material	Plating
Centre contact	Bronze	Silver Plating
Outer conductor	Brass	SUCOPLATE (R) Plating
Body	Aluminium	Anodized
Insulator	PFA / PTFE	
Coupling nut	Brass	SUCOPLATE (R) Plating
Gasket	VMQ (Silicone rubber)	
Resistor substrat material	Beryllium Oxide	
Interface	7/16 / jack (female)	
Piece parts	Material	Plating
Centre contact	Bronze	Silver Plating
Outer conductor	Brass	SUCOPLATE (R) Plating
Body	Aluminium	Anodized
Insulator	PFA / PTFE	

Mechanical data	
Weight	0.256 kg

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

Ordering Information Table	
Item number	Item description
85177184	5906.41.0001

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