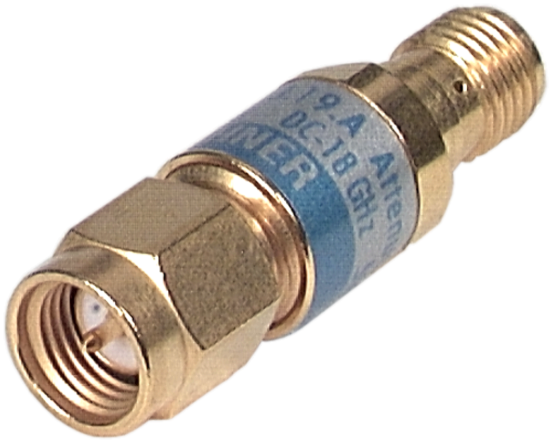
DATA SHEET

COAXIAL FIXED ATTENUATOR, 50 Ohm, 10 dB, SMA

6810.19.A

Properties

- Wide range of interfaces
- 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
SMA	plug (male)	IEC 60169-15_MIL-STD-348A/310_CECC 22110
SMA	jack (female)	IEC 60169-15_MIL-STD-348A/310_CECC 22110

Electrical data	
Impedance	50Ω
Operating frequency	0 GHz ... 18 GHz
Attenuation nominal	10 dB
VSWR	1.35
Return loss	16.5 dB

Electrical Data (frequency related)		
Frequency range	**Attenuation deviation**	**VSWR max**
0 GHz to 4 GHz	+/- 0.3 dB	1.1
4 GHz to 8 GHz	+/- 0.3 dB	1.2
8 GHz to 12.4 GHz	+/- 0.6 dB	1.2
12.4 GHz to 18 GHz	+/- 0.8 dB	1.35

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 µs pulse width, 0.05 % duty cycle
Electrical remarks	Peak voltage max. 160V (50 Ohm)

Interface and material data		
Interface	SMA / plug (male)	
Piece parts	**Material**	**Plating**
Centre contact	Copper Beryllium Alloy	Gold Plating

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Interface and material data		
Outer conductor	Copper Beryllium Alloy	Gold Plating
Body	Copper Beryllium Alloy	Gold Plating
Insulator	PFA / PTFE	
Coupling nut	Bronze	Gold Plating
Gasket	VMQ (Silicone rubber)	
Interface	SMA / jack (female)	
Piece parts	**Material**	**Plating**
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Copper Beryllium Alloy	Gold Plating
Body	Copper Beryllium Alloy	Gold Plating
Insulator	PFA / PTFE	

Mechanical data	
Weight	0.008 kg

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

Ordering Information Table	
Item number	Item description
22550031	6810.19.A

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