DATA SHEET

Precision Attenuator, Low Power

6806.17.B

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-precision	plug (male)	IEC 60169-16_MIL-STD-348A/304_CECC 22210
N-precision	jack (female)	IEC 60169-16_MIL-STD-348A/304_CECC 22210

Electrical data	
Impedance	50Ω
Operating frequency	0 GHz ... 18 GHz
Attenuation nominal	6 dB
VSWR	1.25
Return loss	19.1 dB

Electrical Data (frequency related)		
Frequency range	**Attenuation deviation**	**VSWR max**
0 GHz to 4 GHz	0.3 dB	1.1
4 GHz to 6 GHz	0.3 dB	1.1
6 GHz to 8 GHz	0.5 dB	1.15
8 GHz to 12.4 GHz	0.5 dB	1.15
12.4 GHz to 18 GHz		1.25

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

Interface and material data		
Interface	N-precision / plug (male)	
Piece parts	**Material**	**Plating**
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Stainless Steel	
Body	Stainless Steel	
Insulator	Air Dielectric - Bead - PPH	
Coupling nut	Brass	SUCOPLATE (R) Plating
Gasket	VMQ (Silicone rubber)	
Interface	N-precision / jack (female)	
Piece parts	**Material**	**Plating**
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Stainless Steel	
Body	Stainless Steel	
Insulator	Air Dielectric - Bead - PPH	

Mechanical data	
Weight	0.086 kg

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

Ordering Information Table	
Item number	Item description
22550189	6806.17.B

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