

## Precision Attenuator, Low Power

6820.17.B

### 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
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	50 $\Omega$
Operating frequency	0 GHz ... 18 GHz
Attenuation nominal	20 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	0.8 dB	1.25

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

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<b>Interface and material data</b>		
Interface	N-precision / plug (male)	
<b>Piece parts</b>	<b>Material</b>	<b>Plating</b>
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)	
<b>Piece parts</b>	<b>Material</b>	<b>Plating</b>
Centre contact	Copper Beryllium Alloy	Gold Plating
Outer conductor	Stainless Steel	
Body	Stainless Steel	
Insulator	Air Dielectric - Bead - PPH	

<b>Mechanical data</b>	
Weight	0.086 kg

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

<b>Ordering Information Table</b>	
Item number	Item description
22550191	6820.17.B

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