

# HUBER+SUHNER® DATA SHEET

## RF ATTENUATOR: Type 6810.19.A



Rev.: H

### Description

Precision Attenuator, Low Power

### Product Configuration

Connectors (side 1 / side 2) SMA plug (male) / SMA jack (female)

### Technical Data

#### Electrical Data

Nominal Impedance	50 Ω			
Nominal Attenuation	10 dB			
Frequency Range	DC to 18 GHz			
Frequency sub Range (GHz)	DC to 4	4 to 8	8 to 12.4	12.4 to 18
Attenuation Deviation (±dB)	0.3	0.3	0.6	0.8
VSWR max.	1.1	1.2	1.2	1.35
Power Rating	1 Watt average power to 30 °C ambient temperature, linearly derated to 0 Watt at 130 °C ambient temperature. 500 Watt peak power during max. 5 μs			
Power coefficient	0.001 dB/dB/W			
Temp. coefficient	0.0001 dB/dB/°C			



#### Mechanical Data

Dimensions	9 / 9 / 30 (height / width / length coaxial in mm)
Weight	0.008 kg

#### Environmental Data

2002/95/EC (RoHS)	compliant
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#### Material Data

##### Piece Part (side 1)

Centre contact	Copper Beryllium Alloy
Outer contact	Copper Beryllium Alloy
Body	Copper Beryllium Alloy
Insulator	PFA / PTFE
Coupling nut	Bronze

##### Surface Plating

Centre contact	Gold Plating (without Nickel underplating)
Outer contact	Gold Plating (without Nickel underplating)
Body	Gold Plating (without Nickel underplating)
Coupling nut	Gold Plating (without Nickel underplating)

##### Piece Part (side 2)

Centre contact	Copper Beryllium Alloy
Outer contact	Copper Beryllium Alloy
Body	Copper Beryllium Alloy
Insulator	PFA / PTFE

##### Surface Plating

Centre contact	Gold Plating (without Nickel underplating)
Outer contact	Gold Plating (without Nickel underplating)
Body	Gold Plating (without Nickel underplating)

### Related Documents

Outline drawing	DCA-00005292
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### Ordering Information

Single packaging	6810.19.A
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### Additional Information

#### Remarks

Interface dimensions acc. to	IEC 60169-15_MIL-STD-348A/310_CECC 22110
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HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

#### WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



**HUBER+SUHNER AG**  
**RF Industrial**  
**9100 Herisau, Switzerland**  
 Phone +41 (0)71 353 41 11  
 Fax +41 (0)71 353 45 90  
 www.hubersuhner.com

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