

Flatten broadband RF performance with passive equalization.

Precision cable-loss compensation from 5 GHz to 26.5 GHz.

The EQ3007 series passively offsets frequency-dependent attenuation to improve gain flatness and preserve signal integrity in demanding microwave signal chains. Compact, rugged construction supports communications, radar, aerospace and RF test applications.

5 - 26.5 GHz BROADBAND RANGE	10 / 15 / 20 dB SLOPE OPTIONS	± 0.75 / ± 1.5 / ± 3.0 dB LINEARITY	-54 to +125°C OPERATING RANGE
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Key Features

- Broadband operation from 5 to 26.5 GHz
- Passive cable loss compensation
- Precision negative slope equalization
- Maintains a flatter system frequency response
- 1 W power handling
- Compact 2.92 mm coaxial package
- Low insertion loss and excellent VSWR

Applications

- K-band and microwave communications
- Radar and electronic warfare (EW) systems
- RF and microwave test equipment
- SATCOM and aerospace platforms
- Cable loss compensation
- High-frequency cable assemblies
- System gain equalization

Electrical Specifications

Parameter	Value
Frequency Range	5 - 26.5 GHz
Available Delta Slopes	10, 15, & 20 dB <i>Δ slope relative to loss at 26.5 GHz</i>
Max. Insertion Loss at 26.5 GHz	2.0 dB
Linearity	EQ3007-10 ± 0.75 dB EQ3007-15 ± 1.5 dB EQ3007-20 ± 3.0 dB <i>Deviation from nominal delta slope</i>
VSWR (Input/Output)	1.80:1 Max.
Power (Input/Output)	1 Watt @+25°C Max. <i>Derated linearity to 5 W at +125°C</i>
Temperature Range	Operating -54°C to +125°C Non-Operating -65°C to +125°C

Mechanical Specifications

Feature	Material
2.9mm Connectors	Passivated Stainless Steel
Conductors	Gold Plated Beryllium Copper
Weight	6 grams max.

Connector mates both mechanically and electrically with all SMA, K* & 3.5mm series connectors

*K is a trademark of Anritsu/Wiltron Corp.

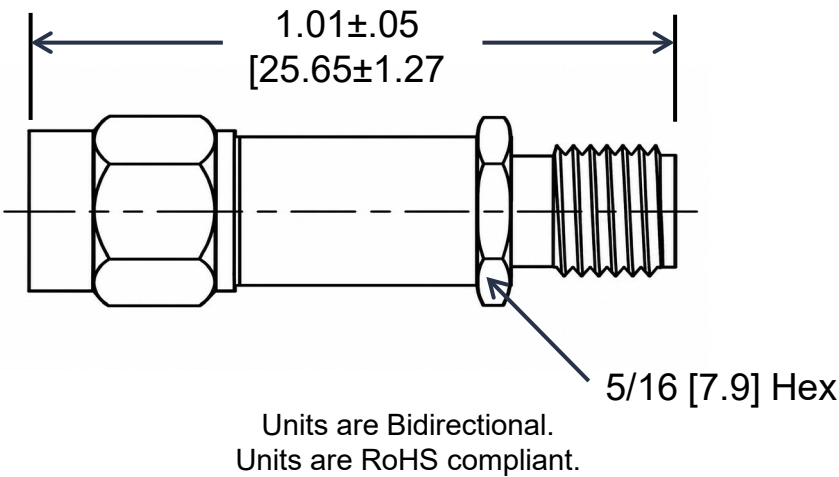


Compact. Rugged. Easy to integrate.

Part Numbers

Model	Data Slope (dB)	Freq. Range (GHz)	Max. Power (Watts)	Connector Type	Configuration
High Frequency Equalization					
EQ3007-10	10	5-26.5	1	2.9mm	Male/Female
EQ3007-15	15	5-26.5	1	2.9mm	Male/Female
EQ3007-20	20	5-26.5	1	2.9mm	Male/Female

Physical Dimensions



Typical Slope for EQ3007-20

