

Dial Type Level Set Attenuator and Variable Phase Shifter QDA/QDP

Characteristics

Broadband Operation

Product Description

- 0 to 25 dB Attenuation Range
- Mechanically Stable, Lockable

QuinStar Technology's QDA and QDP series Level Set

Attenuators and Phase Shifters operate over the full

waveguide band, and are offered in 7 waveguide bands

covering the frequency range of 18 to 110 GHz. These

adjustable level-set attenuators and variable phase shifters

are driven by a mechanically stable, multi-turn miniature

High resolution



dial knob to allow accurate and repeatable setting of attenuation and phase shift. The locking feature of the dial allows reliable operation when used in laboratory test setup, subsystems and instruments. The dial can be calibrated at a specified frequency, if desired. These adjustable components offer broadband performance.

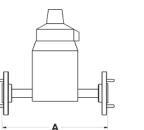
Specifications

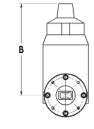
PERFORMANCE PARAMETER	К	Ka	Q	U	V	E	W
Frequency range, GHz	18-26.5	26.5-40	33-50	40-60	50-75	60-90	75-110
Typical Insertion Loss, in dB, at 0 dB setting	0.3	0.3	0.4	0.5	0.6	0.7	0.8
Attenuation Range, dB (for Attenuator)	0-30	0-30	0-25	0-25	0-25	0-25	0-25
Average Power Handling. Watts	1.5	1.0	1.0	1.0	0.6	0.6	0.6
Phase Shift, degrees (for Phase Shifter)	0-180	0-180	0-180	0-180	0-180	0-180	0-180



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Outline Drawings/Mechanical Specifications





WAVEGUIDE	OUTLINE DIMENSIONS, inches/mm					
BAND	A	В				
К	3.00/76.2	2.35/59.7				
КА	2.75/69.9	2.16/54.9				
Q	2.75/69.9	2.16/54.9				
U	2.75/69.9	2.16/54.9				
V	2.5/63.5	1.94/49.3				
E	2.5/63.5	1.94/49.3				
W	2.5/63.5	1.94/49.3				

Ordering Information

Model Number

QD_ - A 0000

model prefix ------

- A = Level Set Attenuator
- P = Variable Phase Shifter

waveguide band designator ------

- K = K-band
- A = Ka-band
- Q = Q-band
- U = U-band
- V = V-band
- E = E-band
- W = W-band