

Direct-Reading Precision Attenuators

FEATURES

- ❖ Low VSWR
- ❖ Direct Reading
- ❖ Low Insertion Loss
- ❖ Anti-Backlash Drive
- ❖ Negligible Phase Shift
- ❖ Precision Construction
- ❖ Frequency Independent

APPLICATIONS

- ❖ Test bench
- ❖ Instrumentation



CDA Series

DESCRIPTION

CernexWave's CDA series direct-reading precision attenuators provide 0 to 50 dB of calibrated attenuation by rotation of a resistive vane mounted in a circular waveguide section. These units are often referred to as "precision rotary vane attenuators."

SPECIFICATIONS

Waveguide Band	-	X	-	Ku	K	Ka	Q	U	V	E	W	F	D	G
Waveguide Size	WR-137*	WR-90	WR-75*	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-6	WR-5
Frequency Range (GHz)	5.85 to 8.2	8.2 to 12.4	10 to 15	12.4 to 18.0	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110	90 to 140	110 to 170	140 to 220
Insertion Loss (dB) Typ	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.8
VSWR Typ	1.2	1.15	1.2	1.3	1.3	1.15	1.15	1.15	1.20	1.20	1.20	1.25	1.25	1.25
Average Power (Watts)	5.0	1.0	5.0	1.0	1.0	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1

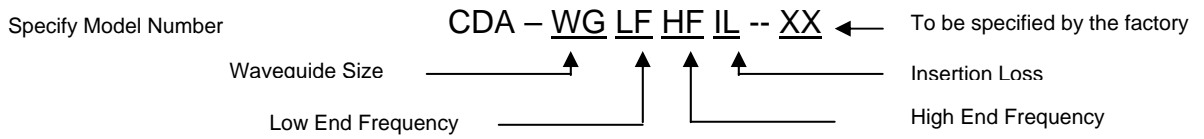
The following specifications are common to all bands.

Description	Specification								
Attenuation Range	0 dB to 50 dB (Above Residual Attenuation) over entire waveguide band								
Accuracy	0.1 dB or 4% typical of reading, whichever is greater								
Scale Length	21 inches								
Scale Increments	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">0 dB to 0.1dB – 0.01 dB</td> <td style="width: 50%;">20.0 dB to 30.0 dB – 0.5 dB</td> </tr> <tr> <td>0.1 dB to 1.0 dB – 0.05 dB</td> <td>30.0 dB to 50.0 dB – 1.0 dB</td> </tr> <tr> <td>1.0 dB to 10.0 dB – 0.10 dB</td> <td>Max Setting 50 dB Typical</td> </tr> <tr> <td>10.0 dB to 20.0 dB – 0.20 dB</td> <td></td> </tr> </table>	0 dB to 0.1dB – 0.01 dB	20.0 dB to 30.0 dB – 0.5 dB	0.1 dB to 1.0 dB – 0.05 dB	30.0 dB to 50.0 dB – 1.0 dB	1.0 dB to 10.0 dB – 0.10 dB	Max Setting 50 dB Typical	10.0 dB to 20.0 dB – 0.20 dB	
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10.0 dB to 20.0 dB – 0.20 dB									
Phase Shift vs. Attenuation	Negligible								

*WR-137 and WR-75 Attenuation Range: 0 to 50dB Min



HOW TO ORDER:



Example: To order WR-15 Direct reading precision attenuator, specify CDA-5075-XX.

ERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE



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CernexWave

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