Programmable Rotary Vane Attenuators

FEATURES:
- Low Cost
- Compact Size
- 7.0 to 170 GHz
- High Accuracy
- Digital Readout
- Low Insertion Loss
- IEEE-488 Interface
- Full Waveguide Bands
- Manual Operation Mode

APPLICATIONS:
- Instrumentation
- Remote Control of RF Power Levels
- Fade Margin Testing of Microwave Radios

DESCRIPTION:
Cernex’s CRV series precision programmable rotary vane attenuators are available in full waveguide bands from 7.0 to 170 GHz. Attenuation control is either manually via a front panel or remote controlled using a standard IEEE-488 interface. The attenuators’ small compact size incorporates both the electronic controller and microwave components. The unit operates from a single +24 volt DC source or with an optional AC adapter. Attenuation range is from 0 to 60 dB in 0.1 dB steps with 0.05 dB steps from 0 to 20 dB. A digital readout is provided on the front panel to display attenuation settings. The attenuators are highly reliable and designed to be used in ATE and remote power control applications.

SPECIFICATIONS:

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Frequency Range (GHz):
- WR-137: 5.85 to 8.20
- WR-112: 7 to 10
- WR-90: 8.2 to 12.4
- WR-75: 10 to 15
- WR-62: 12.4 to 18
- WR-42: 18 to 26.5
- WR-28: 26.5 to 40
- WR-22: 33 to 50
- WR-19: 40 to 60
- WR-15: 50 to 75
- WR-12: 60 to 90
- WR-10: 75 to 110
- WR-8: 90 to 140
- WR-7: 110 to 170

Insertion Loss (dB) Max:
- WR-137: 0.7 dB
- WR-112: 0.5 dB
- WR-90: 0.5 dB
- WR-75: 0.5 dB
- WR-62: 0.5 dB
- WR-42: 0.5 dB
- WR-28: 0.5 dB
- WR-22: 0.5 dB
- WR-19: 0.6 dB
- WR-15: 0.7 dB
- WR-12: 0.8 dB
- WR-10: 1.0 dB
- WR-8: 1.1 dB
- WR-7: 1.5 dB

VSWR Max:
- WR-137: 1.2:1 Nom
- WR-112: 1.2:1 Nom
- WR-90: 1.25:1 Nom
- WR-75: 1.25:1 Nom
- WR-62: 1.25:1 Nom
- WR-42: 1.25:1 Nom
- WR-28: 1.25:1 Nom
- WR-22: 1.25:1 Nom
- WR-19: 1.15:1 Nom
- WR-15: 1.15:1 Nom
- WR-12: 1.15:1 Nom
- WR-10: 1.15:1 Nom
- WR-8: 1.2:1 Nom
- WR-7: 1.3:1 Nom

Max. Power (Watts):
- WR-137: 10 W
- WR-112: 5 W
- WR-90: 2 W
- WR-75: 2 W
- WR-62: 2 W
- WR-42: 1 W
- WR-28: 0.5 W
- WR-22: 0.5 W
- WR-19: 0.5 W
- WR-15: 0.5 W
- WR-12: 0.5 W
- WR-10: 0.5 W
- WR-8: 0.4 W
- WR-7: 0.3 W

HOW TO ORDER:
Specify Model Number
CRV – WG LH HF IL -- XX

Example: To order a WR15 Rotary Vane Attenuator with 0.7 db insertion loss, specify CRV15507507-XX

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE