



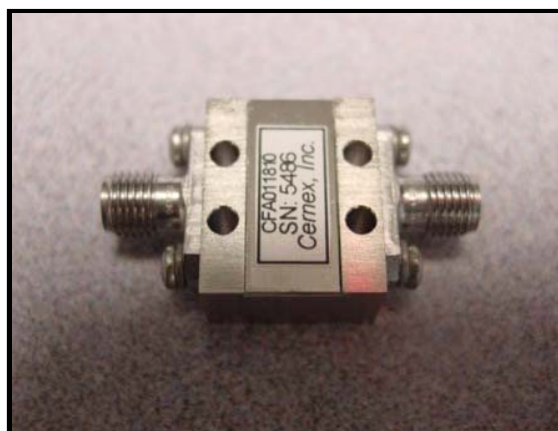
Pin Diode Attenuators (Waveguide & Coaxial)

FEATURES:

- ❖ Covers 1-110GHz
- ❖ Narrow band Attenuators 10 to 60 dB
 - 6% Bandwidth
- ❖ Full band Attenuator 10 to 40 dB

APPLICATIONS:

- ❖ Wave shaping
- ❖ Amplitude Modulation
- ❖ Signal Switching
- ❖ Receiver Protection



DESCRIPTION:

CPD Series

Cernex's CPD series PIN diode attenuator is a SPST reflective attenuator that combines low loss, high isolation performance in a compact package. Attenuation options are available for the CPD series attenuation with isolation versions up to 60 dB. These attenuators are supplied without drivers; control is typically 0 to +10 Vdc. For full band applications, the CPD series attenuation features an excellent on/off ratio and a full bandwidth.

SPECIFICATIONS:

Waveguide Band	S	CI	C	Cs	XI	XII	X	Xs
Waveguide Size	WR-229	WR-187	WR-159	WR-137	WR-112	WR-102	WR-90	WR-75
Frequency Range (GHz)	3.3 to 4.90	3.95 to 5.85	4.9 to 7.05	5.85 to 8.20	7.05 to 10.0	7.0 to 11.00	8.20 to 12.40	10.0 to 15.00
Attenuation	-10, -20, -30, -40, -50, -60							
Insertion Loss (db max)	0.4	0.5	0.6	0.7	0.7	0.8	0.8	1.0
Operating Specifications								
Control Input	0 to + Vdc							
Operating Temperature	0°C to 60°C							
Storage Temperature	-55°C to +125°C							
VSWR	1.5 Typical (Low Loss Condition)							

Waveguide Band	Ku	K	Ka	Q	U	V	E	W
Waveguide Size	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Frequency Range (GHz)	12.4 to 14.0	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110
Attenuation	-10, -20, -30, -40, -50, -60							
Insertion Loss (db max)	1.0	1.0	1.0	1.0	1.2	1.5	2.0	2.0



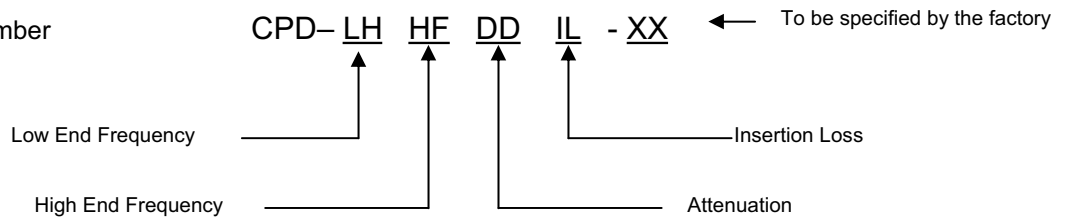
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V, E, W are 50% bandwidth

HOW TO ORDER:

Specify Model Number



Example: To order WR-15 pin diode attenuator with a frequency range of 57 to 62 Ghz and an attenuation of 60db and Insertion Loss of 1.5 dB, specify CPD-57626001-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE