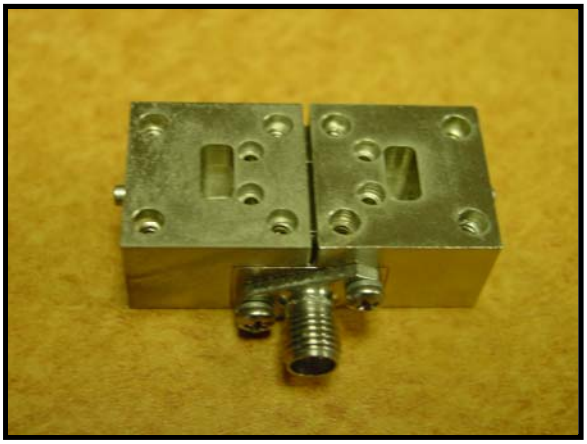
CERNEX, Inc.

Downconverters

FEATURES:

- 1-94 GHz frequency range
- L/S band IF interface
- Low Noise Figure
- AGC/ALC function option
- Integrated LO source option
- Low cost integrated technologies



CDN Series

APPLICATIONS:

- Point-to-Point Radio
- Point-to-Multipoint Radio

DESCRIPTION:

Cernex's CDN series microwave and millimeter-wave downconverters use MIC thin-film technology to achieve cost-effective, high volume production solutions. These downconverters are available from L Band to W Band.

SPECIFICATIONS:

Waveguide Band	X	Ku	Ku	K	K	K	Ka	Ka
Frequency Range (GHz)	5.9 to 8.5	10.5 to 13.2	14.2 to 15.35	17.7 to 19.7	22.0 to 23.6	24.0 to 26.8	27.5 to 31.5	37.5 to 40.0
Instantaneous BW	> 60 MHz							
IF Input Frequency	500MHz to 4.0GHz							
Gain (typical) (dB)	20 to 40	20 to 40	20 to 40	20 to 40	20 to 40	20 to 40	20 to 40	20
IF Flatness	< 1.0 dB							
Noise Figure (dB)	< 2.25	< 3.0	< 3.5	< 3.5	< 4.0	< 4.5	< 5.0	< 6.5
Input IPS	> -10 dBm							
Image Rejection	> 50 dB							
DC Power	+5V < 200mA							

HOW TO ORDER:

Specify Model Number

CDN – RF LO IF GN-- XX

RF Frequecny

LO Frequecny

IF Frequency

Gain

To be specified by the factory

Example: To order WR-28, specify CDN - 40 40 04 20 - XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

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