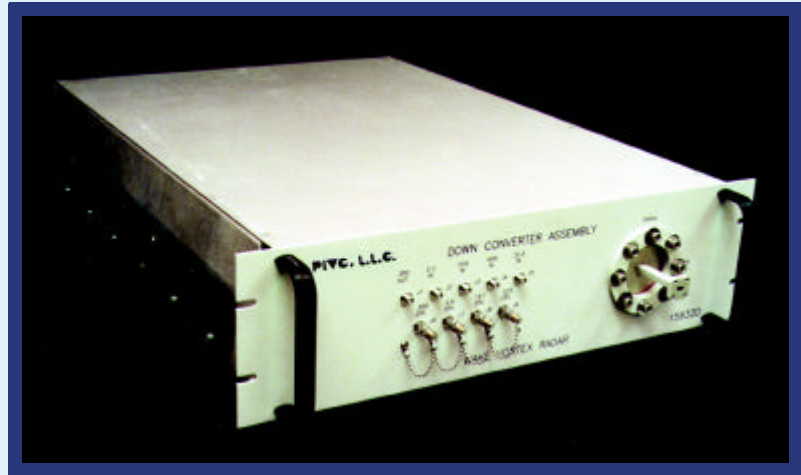


Features

- High Dynamic Range
- Low Spurious Output
- Modular Design
- Selectable Reference
- Variable Gain



DCEKU Series

Description

The DCEKU down converter units are employed as front end devices or secondary stages of a receiver chain. For front end applications, a variety of LNA characteristics are available for the user to choose from. Modular design allows the units to be optimized for IF frequencies at X-Band or S-Band depending on the user's requirements. Signal conditioning, such as variable gain control, is also available. The IF output is designed to directly interface with either the DCEX or DCES series.

Specifications

TYPICAL PARAMETERS	MODEL NUMBER
	DCEKU
Input Frequency (GHz)	12 - 18
Output Frequency (GHz)	2 - 12
Bandwidth (MHz)	500 - 800
Gain (dB) (per requirement)	-20 to +40
Input Power Level (dBm)	0
1 dB Compression Point (dBm)	+10 to +30
Gain Adjustment (dB)	0 to 30
Noise Figure (max) (dB)	5
VSWR, RF Inputs (max)	2:1
VSWR, IF Outputs (max)	2:1
Input Band Pass Filter (if required)	Fc = 12 GHz to 18 GHz
Spurious Outputs	60 dBc
Temperature Ratings (°C)	
Operating	0 to 70
Storage	-40 to 85