

Features

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



Description

DCEX Series

The DCEX series is very popular in radar applications. Their primary use is as a front end to a down conversion chain, but the down converters can also be utilized as an intermediate stage. As with the DCEKU series, the amplifier characteristics can be tailored to meet user requirements. Coupling the assembly with an agile local oscillator provides a constant IF for a frequency agile system. Fast switching attenuators allow the system to provide a flat gain response over the operational bandwidth. Several options are available. The IF output of these units can be further translated using the DCEUHF, DCEL, or DCES series.

Specifications

TYPICAL PARAMETERS	MODEL NUMBER
	DCEX
Input Frequency (GHz)	8 - 12
Output Frequency (MHz)	300 - 4000
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)	1.5:1
Input Band Pass Filter (if required)	Fc = 8 GHz to 12 GHz
Spurious Outputs	60 dBc
Temperature Ratings (°C)	
Operating	0 to 70
Storage	-40 to 85