

Transmitter Sub-assemblies and Modules

FEATURES:

- ❖ Frequency coverage: 18 to 110 GHz
- ❖ Custom designed
- ❖ High performance

APPLICATIONS:

- ❖ Communication systems
- ❖ Radio systems
- ❖ Radar systems



DESCRIPTION:

CTX Series

Cernex's CTX series transmitter sub-assemblies and modules are offered in the frequency range of 18 to 110 GHz. Due to the nature of the system application, most transmitter sub-assemblies and modules are custom specified. Based on Cernex's extensive in-house passive and active component design and manufacturing capacities, various transmitter sub-assemblies and modules can be produced and delivered to meet the customer's specifications. Common frequency band focuses are K, Ka, Q, V, E and W bands.

SPECIFICATIONS:

Parameters	Specifications	Technical Remarks
Frequency Range	18 to 110 GHz	Other frequency ranges are available upon request
Output P-1 dB Range	20 to 40 dBm	Other P-1 dB is available. Specify when ordering
Linear Gain Range	20 to 60 dB	Other gain ranges are available. Specify when ordering
Gain Flatness	±1.0 to ±3.0dB	Specify when ordering
Gain Control	30 dB	This is a typical value. Specify when ordering
Local Oscillator Type	Free running or PLO	System dependent
Local Oscillator Frequency Range	9.0 to 110 GHz	Depends on up-converter type
Local Oscillator Power Range	0 to 16 dBm	Depends on up-converter type
Local Oscillator Rejection	20 to 40 dB	Other rejections are available. Specify when ordering
IF Input	I/Q	QPSK or higher available
Harmonics rejection	-60dBc	This is a typical value. Specify when ordering
Spurious	-60dBc	This is a typical value. Specify when ordering
Port Return Loss	10 dB	This is a typical value. Specify when ordering
Temperature performance	Such as $\Delta G/\Delta T$; $\Delta P-1/\Delta T$	Gain and P1-dB versus temperature. Specify when ordering
Power Supply	Various	Specify when ordering
Connector Type	Various	Specify when ordering
Mechanical Dimensions	Various	Specify when ordering
Environmental	Various	Specify when ordering