

21-30 GHz Active Harmonic Mixer



HX7001

General Description

The HX7001 is an active sub-harmonically pumped (x4) mixer with an integrated LO amplifier which can be used as an upconverter or downconverter.

The device requires a single bias (+5V) and it comes in a hermetically sealed package with SMA and K connectors.

Electrical Performance

Typical Data @25 °C

Parameter	Min	Typ	Max	Units
Frequency Range, RF	21		30	GHz
Frequency Range, LO	5		7.5	GHz
Frequency Range, IF	DC		3	GHz
Conversion Loss		10		dB
LO Power	-5	-2	1	dBm
VSWR			2 : 1	
4LO to RF Isolation		40		dB
4LO to IF Isolation		40		dB
1 dB Compression		0		dBm
Supply Voltage	4.5	5	5.5	V
Supply Current		80		mA
Operating Temperature	-40		+85	°C
Connectors	SMA-f (LO), SMA-f (IF), K-f (RF)			
Package	M205			
Size	18 x 18 x 8			mm

Rev. 1.0