


HX5006

General Description

The HX5006 is an double balanced mixer that can be used as a down- and upconverter.

The device has a hermetically sealed SMA package and works in the temperature range from -40°C to +85°C.

Electrical Performance

Typical Data @25 °C, IF=100MHz

Parameter	Min	Typ	Max	Units
Frequency Range, RF	9		11	GHz
Frequency Range, LO	8.5		10.5	GHz
Frequency Range, IF	DC		1	GHz
Conversion Loss	5.5	6	7.5	dB
IP3_IN	16	17	23	dBm
LO Power	15	16	19	dBm
LO to RF Isolation	31	32	34	dB
LO to IF Isolation	29	30	33	dB
Operating Temperature	-40		+85	°C
Connectors	SMA-f			
Package				
Size				mm

Rev. 1.1

Measurement IP3

RF = 10 GHz	IF_100MHz	IF_500MHz	IF_1GHz
IP3, LO=16dBm	19 dBm	18 dBm	19 dBm
IP3, LO=18dBm	19.5 dBm	19 dBm	21 dBm
IP3, LO=20dBm	21.5 dBm	19 dBm	21 dBm

RF = 10.5 GHz	IF_100MHz	IF_500MHz	IF_1GHz
IP3, LO=16dBm	21.5 dBm	21.5dBm	21 dBm
IP3, LO=18dBm	23 dBm	22 dBm	22 dBm
IP3, LO=20dBm	23 dBm	23 dBm	23 dBm



