


HX6001

General Description

The HX6001 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 | 15 | | 21 | GHz |
| Frequency Range, LO | 4 | | 5.5 | GHz |
| Frequency Range, IF | DC | | 3 | GHz |
| Conversion Loss | | 10 | | dB |
| LO Power | -3 | 0 | 3 | dBm |
| VSWR | | | 2 : 1 | |
| 4LO to RF Isolation | | 40 | | dB |
| 4LO to IF Isolation | | 40 | | dB |
| 1 dB Compression | | 1 | | dBm |
| Supply Voltage | 4.5 | 5 | 5.5 | V |
| Supply Current | | 100 | | 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 |

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