Converters
SatCom Downconverter, Ku-Band
Model: MFC139

Features
- Ideal for Mil-Satcom Applications
- Very Low Phase Noise
- Good Amplitude & Phase Response
- High Output Compression and IP3
- Summary Alarm
- 20 dB Gain Control, RS485

Key Parameter | Requirement
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Bandwidth | 10.95 to 11.55 GHz
| 11.55 to 12.15 GHz
| 12.15 to 12.75 GHz

Gain | 20 dB
Manual Gain Control | Set gain to 25 dB

Phase Noise (dBc/Hz)
- 10 Hz: -70 dBc
- 100 Hz: -90 dBc
- 1 K: -100 dBc
- 10 K: -102 dBc
- 100 K: -102 dBc
- 1 M: -138 dBc

Noise Figure | 16 dB

Typical Phase Noise

IP3 – Two Tone Intermod | -60 dBc @ -25 dBm input
P1dB | 18 dBm
Band Flatness
- Any 60 MHz: +/- 0.25 dB
- Any 125 MHz: +/- 0.5 dB
500 MHz Band | +/- 1 dB
Phase Linearity
- Any 60 MHz: +/- 0.1 Radian
- Any 125 MHz: +/- 0.3 Radian
Spurious Output
- Signal Related: < -70 dBc
- Signal Independent: < -80 dBm
Phase Errors | < 30 deg / .2 Sec

Specifications subject to change without notice.

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