Converters
SatCom Downconverter
Model: MFC135

Features:
- Ideal for Mil-Satcom Applications
- Very Low Phase Noise
- Good Amplitude & Phase Response
- High Output Compression and IP3
- Summary Alarm

Key Parameter | Requirement
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Bandwidth | 7.25 to 7.75 GHz
Input | Output 1.0 to 1.5 GHz
Gain | 25 dB
Manual Gain Control | Set gain to 25 dB
Phase Noise (dBc/Hz) 10 Hz | -75 dBc
100 Hz | -95 dBc
1 K | -105 dBc
10 K | -107 dBc
100 K | -107 dBc
1 M | -143 dBc
Noise Figure | 14 dB

Key Parameter | Requirement
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IP3 – Two Tone Intermod | -60 dBc @ -25 dBm input
P1dB | 18 dBm
Band Flatness | 0.25 dB
Any 60 MHz | +/- 0.5 dB
Any 125 MHz | +/- 1 dB
500 MHz Band | +/- 1 dB
Phase Linearity | +/- 0.15 Radian
Any 60 MHz | +/- .05 Radian
Any 125 MHz | +/- .15 Radian
Spurious Output | -7.9 to 8.4 GHz
Signal Related | < -70 dBc
Signal Independent | < -85 dBm
Phase Errors | < 20 deg / .2 Sec

Drawing:

Typical Phase Noise:

Specifications subject to change without notice.

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