

# Converters

## SatCom Downconverter, C-Band

### Model: MFC140



#### 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



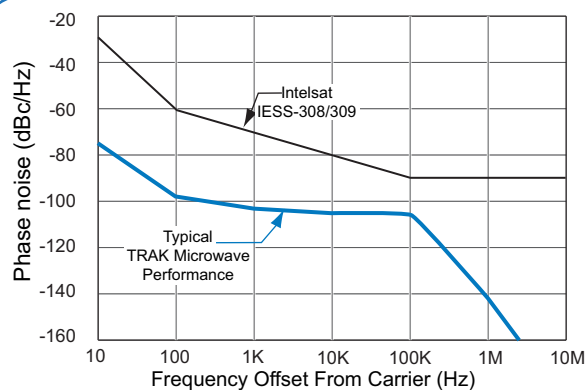
Key Parameter	Requirement
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<b>Bandwidth</b>	
Input	3.6 to 4.2 GHz
Output	.95 to 1.55 GHz
Gain	25 dB
Manual Gain Control	Set gain to 25 dB
<b>Phase Noise [dBc/Hz]</b>	
10 Hz	-75 dbc
100 Hz	- 95 dBc
1 K	- 105 dBc
10 K	- 107 dBc
100 K	- 107 dBc
1 M	- 153 dBc
Noise Figure	14 dB\

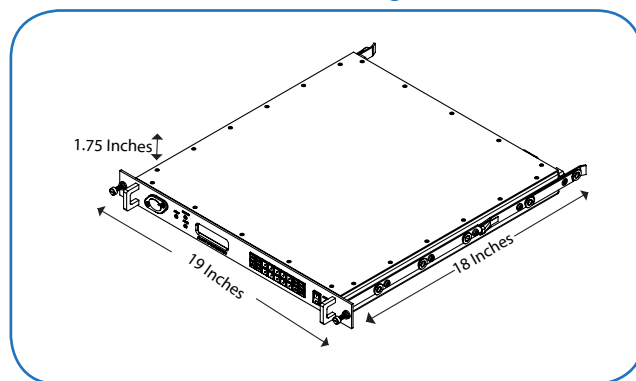
Key Parameter	Requirement
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IP3 – Two Tone Intermod	-60 dBc @ -25 dBm input
P1dB	18 dBm
<b>Band Flatness</b>	
Any 60 MHz	+/- 0.25 dB
Any 125 MHz	+/- 0.5 dB
500 MHz Band	+/- 1 dB
<b>Phase Linearity</b>	
Any 60 MHz	+/- 0.05 Radian
Any 125 MHz	+/- 0.15 Radian
<b>Spurious Output</b>	
Signal Related	< -70 dBc
Signal Independent	< -80 dBm
Phase Errors	< 20 deg / .2 Sec

#### Typical Phase Noise



#### Drawing



Specifications subject to change without notice.

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