

Converters

SatCom Downconverter, Ku-Band

Model: MFC139



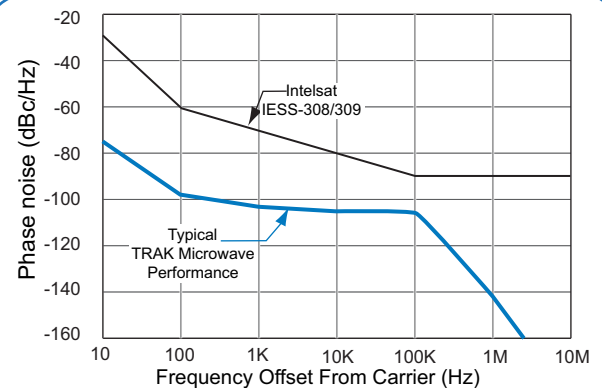
Features

- 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



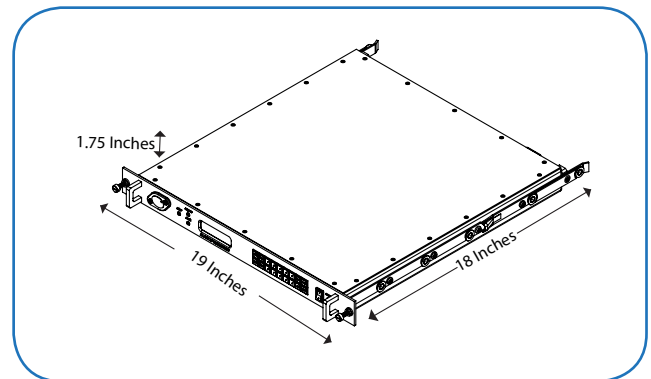
Key Parameter	Requirement
Bandwidth	
Input	10.95 to 11.55 GHz
	11.55 to 12.15 GHz
	12.15 to 12.75 GHz
Output	.95 to 1.55 GHz
Gain	20 dB
Manual Gain Control	Set gain to 25 dB
Phase Noise (dBc/Hz)	
10 Hz	-70 dbc
100 Hz	- 90 dBc
1 K	- 100 dBc
10 K	- 102 dBc
100 K	- 102 dBc
1 M	- 138 dBc
Noise Figure	16 dB

Typical Phase Noise



Key Parameter	Requirement
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

Drawing



Specifications subject to change without notice.

TRAK Microwave Corporation

E-mail: sales@trak.com • www.trak.com

Ph: 813-901-7200 • Fax: 813-901-7491

4726 Eisenhower Boulevard • Tampa, FL 33634-6391 USA

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