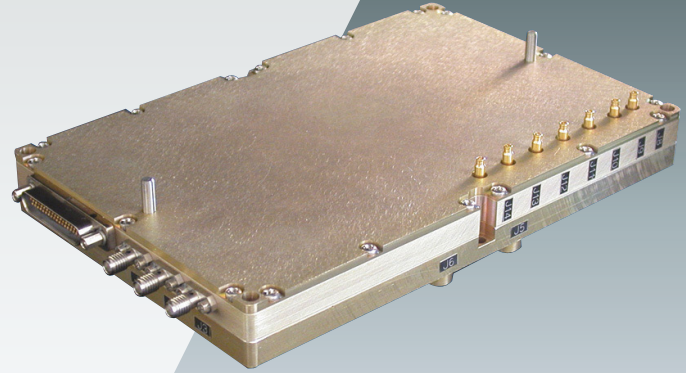


Features

- Quad Channel Multi-Function Ka-Band Converter
- Independent TX/RX Control Each Channel
- Compact Non-Hermetic Package
- Low residual Phase Noise Tx Exciter Design
- Supports Radar & Comm Waveforms
 - Pulse and CW Tx Mode each channel
 - Direct I/Q Tx input
 - 90MHz IF Rx output
- 60dB Rx Attenuation Control
- 60dB Tx Attenuation Control
- Multiple RX Modes
 - High intercept point mode
 - High dynamic range mode
 - Multipurpose mode
- Tx/Rx switching in less than 200ns
- Enters and exits low power "standby" mode in less than 150us



Key Parameter	Requirement	
Output Power		
Ka Band	≥ +20 dBm	
ADC_CLK	+5 dBm +/- 1.5 dB	
Output Return Loss		
Ka Band	≥ 10 dB	
FREQ_REF, LO1, LO2	≥ 12 dB	
TX SSB Phase Noise (TX RF - Ka Band)	Freq.	dBc/Hz
	Offset (Hz)	
	400	-82
	1000	-91
	2000	-100
	10000	-110
	100000	-114
	500000	-120
	1.00E+06	-124
RX SSB Phase Noise (RX IF - 90 MHz)	Freq.	dBc/Hz
	Offset (Hz)	
	400	-82
	1000	-91
	2000	-100
	10000	-110
	100000	-114
	500000	-120
	1.00E+06	-124

Key Parameter

Requirement

Key Parameter	Requirement
T/R Switching	
T/R to Pulse Gate	≤ 90 nsec
Pulse Gate to Tx Pulse	12 nsec
T/R to RX Env	≤ 70 nsec
TX Spurious	
Within +/-800 Hz of carrier	←60 dBc
+/-800 Hz to +/-35 MHz offset	←80 dBc
Greater than +/-35 MHz offset	←60 dBc
RX Spurious	
Within +/-800 Hz of carrier	←62 dBc
Greater than +/-800 Hz offset	←74 dBc
CID, COMM any offset	←62 dBc
RX NF	
HIGH GAIN	8 dB
NORM	25 dB
IIP3	
HIGH GAIN	-11 dBm
NORM	+22 dBm
Gain	
HIGH GAIN	42.5 dB +/- 2 dB
NORM	18.5 dB +/- 2 dB
Active DC Power Dissipation - TX (CW x 4)	
Total	51.8 W
Active DC Power Dissipation - RX (CW x 4)	
Total	60.1 W

Specifications subject to change without notice.

TRAK Microwave Corporation

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