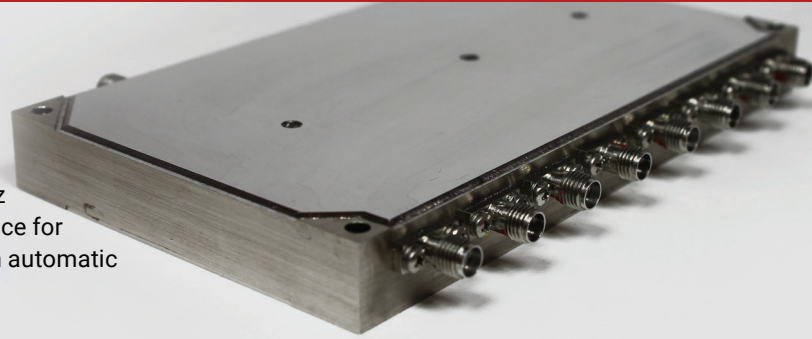


Features

- Block Down Conversion 28-40 GHz to 6-18 GHz
- Integrated Synthesized LO Source
- Allows for Customized LO Frequency
- 17 dB NF Typical
- Hermetic Design for High-Reliability Applications
- Internal or External 10MHz or 100MHz Phase Reference for Phase Locked Output with automatic switching



Performance Specifications

PARAMETER	VALUE
Configuration	4-CHANNEL DOWNCONVERTER
RF Input	28 – 40 GHz
LO Frequency	Internal, 48 GHz Typical
IF Output	6 – 18 GHz
Conversion Gain	15 dB Typical
OP1dB	+14 dBm MIN
Noise Figure	17 dB TYP, 19 dB MAX
OIP3	+20 dBm MIN
Phase Tracking	+/- 30 DEG, CH-CH TYP (Design only) RELATIVE, PER FREQUENCY
Mixing Spurs	-40 dBc TYP, -10 dBm Input
Ref Frequency	EXT. 100 MHz -6 to +6 dBm
LO Phase Noise	< 6 DEG RMS, 100 Hz - 10 MHz
LO Leakage	-20 dBm at RF Input -60 dBm at IF Output
Digital Outputs, LVTTTL	Lock Detect External Reference Detect Activity Detectors, >+10 dBm Output per Channel
Op, Temp Range	-40 C to +85 C
Input Voltages	+5.5 V to +6.5 V @ 2.2 A MAX -11 V to -14 V @ 125 mA MAX +11 V to +14 V @ 20 mA MAX

