L-BAND MULTI-FREQUENCY SOURCE

TECHNICAL FEATURE

Features

- 2 Separate Output Channels
- 2 Selectable Output Frequencies
- Ruggedized Construction

Performance

Frequency Range ............................................. L-Band
Output Power ........................................... +13.0 +/- 1.5 dBm
Isolation ........................................... >60 dB between outputs
Channel Control ............................................ TTL – 2 Bits
Channel Switching Time ................................. 5 ms typ
Tolerance and Stability ................................... +/-0.003% max
VSWR .......................................................... 1.3:1 max
Output Harmonics ........................................... -24 dBc max
Noise and Spurs (130 kHz to 1 MHz offset) ...... -65 dBc max
Operating Voltage (input) ............................. +15 to 28 VDC
RF Connection Interface ................................. SMA Female
Connector (power and control) ....................... Solder Pins
Operating Temperature Range ...................... -56 to +85°C
Package Size ............................................... 4.3” x 2.5” x 2.8”

Description

This L-Band Multi-Frequency source is designed to operate in a rugged airborne environment and simultaneously meet challenging stability and noise requirements. Careful design of the mechanical structure minimized the influx of noise through active operating vibration. A dual oscillator design with internal crystal-based references and isolation between channels provides good noise and minimal spurious signal output over the specified conditions.

The device is fully tested and guaranteed over the operating conditions.