

VSAT DRO Integrated LNB

OMT, Filter and LNB combined

- Dual Oscillator
- Full band 10.7 - 12.75 GHz
- Includes high performance OMT
- Includes Transmit Reject Filter
- Noise and gain optimized LNB, OMT and filter
- 22KHz tone



Specifications

Input Frequency	Low Band: 10.7 - 11.7 GHz High Band: 11.7 - 12.75 GHz
Output Frequency	Low Band: 950 - 1950 MHz High Band: 1100 - 2150 MHz
LO Freq.	Low LO: 9.75 GHz High LO: 10.6 GHz
High/low band Control	22 KHz
Noise Figure	0.7dB typical
Max Tx Power	10 Watt
Gain	57 - 70dB
Local Oscillator Phase Noise (typical)	1KHz: -80 dBc/Hz 10KHz: -100 dBc/Hz 100KHz: -115 DbC/hZ
Local Oscillator Stability	Initial Setting: +/-100 KHz 20°C +/-5°C: +/-500 KHz typical -30°C to +60°C: +/-1MHz typical -40°C to +70°C: +/-1.25 MHz typical
OMT Transmit to Receive Isolation, all ports terminated	10.7 - 14.5GHz: 35 dB
OMT Transmit XPD, all ports terminated	13.75 - 14.5 GHz
Rejection to transmit signal at F-type from rectangular flange input	140 dB typical
Image Rejection	120 dB typical
Maximum transmit power at rectangular flange input	13.75 - 14.5GHz: 10 Watt
Two tone o/p IP3	>15 dBm
Output Connector	F type
Return Loss at 75Ω	>10dB
Operating Temperature Range	-40°C to +70°C
Storage Temperature Range	-40°C to +70°C
PSU (applied to F-type)	8-21V
Current Consumption	110mA typical