Gilat Satellite Networks
21 Yegia Kapayim Street
Petach Tikva 49310, Israel

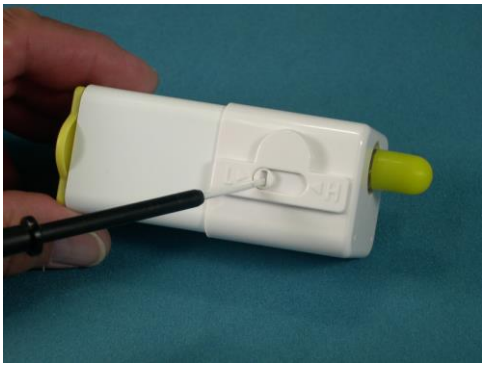
Module Specification sheet

Tri-State KU Universal LNB 10.7-11.7GHz / 11.7-12.75GHz

PN: LN2047

Comply to be integrated and operate with SE-II and SE-IIc VSATs

WG interface & signals



- Waveguide WR-75 grooved (M4 thread * 4)
  - KU Band RF Input Signals

Coax interface & signals

- Coax connecter F-Type female (75Ω)
  - L Band IF Output signals
  - DC Input signals

Tri-State RF band selection modes

- State 1 – Mechanical slider switch is set to "L" (**Low Band**)
  - KU RF Band Input: 10.7 - 11.7GHz
  - L.O Frequency: 9.75GHz
  - L IF Band Output: 0.95 – 1.95GHz
- State 2 – Mechanical slider switch is set to "H" (**High Band**)
  - KU RF Band Input: 11.7 - 12.75GHz
  - L.O Frequency: 10.6GHz
  - L IF Band Output: 1.1 – 2.15GHz
- State 3 -
  Remote selection mode through VSAT with DiSEqC capability, Mechanical slider is set to "L"
  - VSAT 22KHz Tone injection is muted – **Low Band**(see state 1)
  - VSAT 22KHz Tone injection is activated – **High Band**(see state 2)

RF Characteristics

- Noise Figure: 0.8dB typical
- Linear Gain: 55dB typical
- Local Oscillator Uncertainty over Temperature and aging: +/-25ppm
- L.O Phase Noise (SSB):
  - -75dBC @ 1KHz Offset
  - -78dBC @ 10KHz Offset
  - -83dBC @ 100KHz Offset
  - -103dBC @ 1MHz Offset
- Min output power @P1dB: 0dBm
- Input VSWR: 2.5 : 1 typical
- Output VSWR: 2.3 :1 max

DC Characteristics

- Operational Voltage range: +10V to +24V
- Power Supply Current Drain: 100mA max.

Environmental Conditions

- Operational Temperature range: -40ºC to +60ºC
- Storage Temperature range: -40ºC to +75ºC
- Humidity: 0 to 100%
- Water/Dust proof (IP Code): IP67

Physical Characteristics

- Weight: <0.18Kg
- Dimensions: < (L)105 x (W)45 x (H)45 mm
- Humidity: 0 to 100%