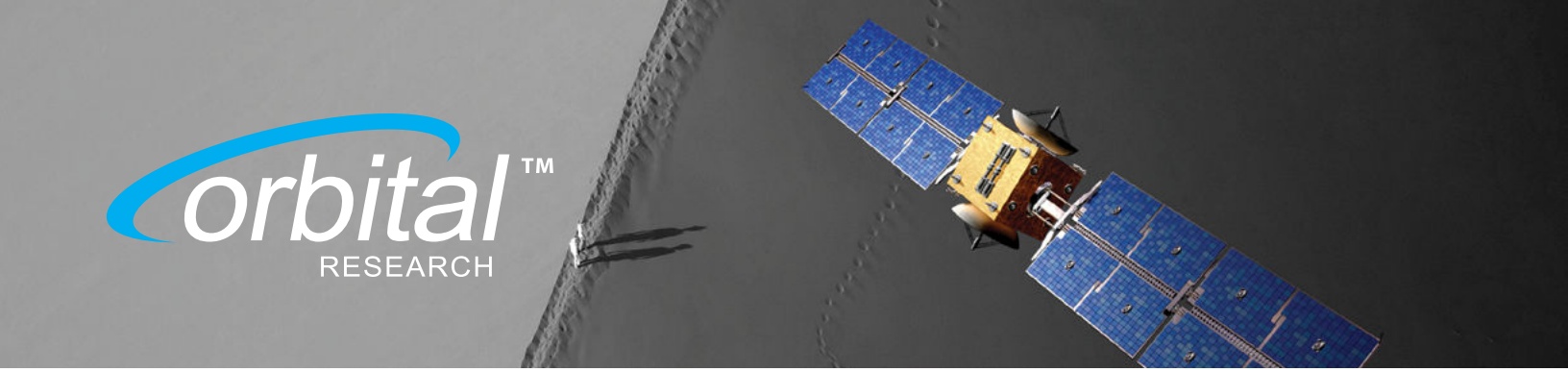


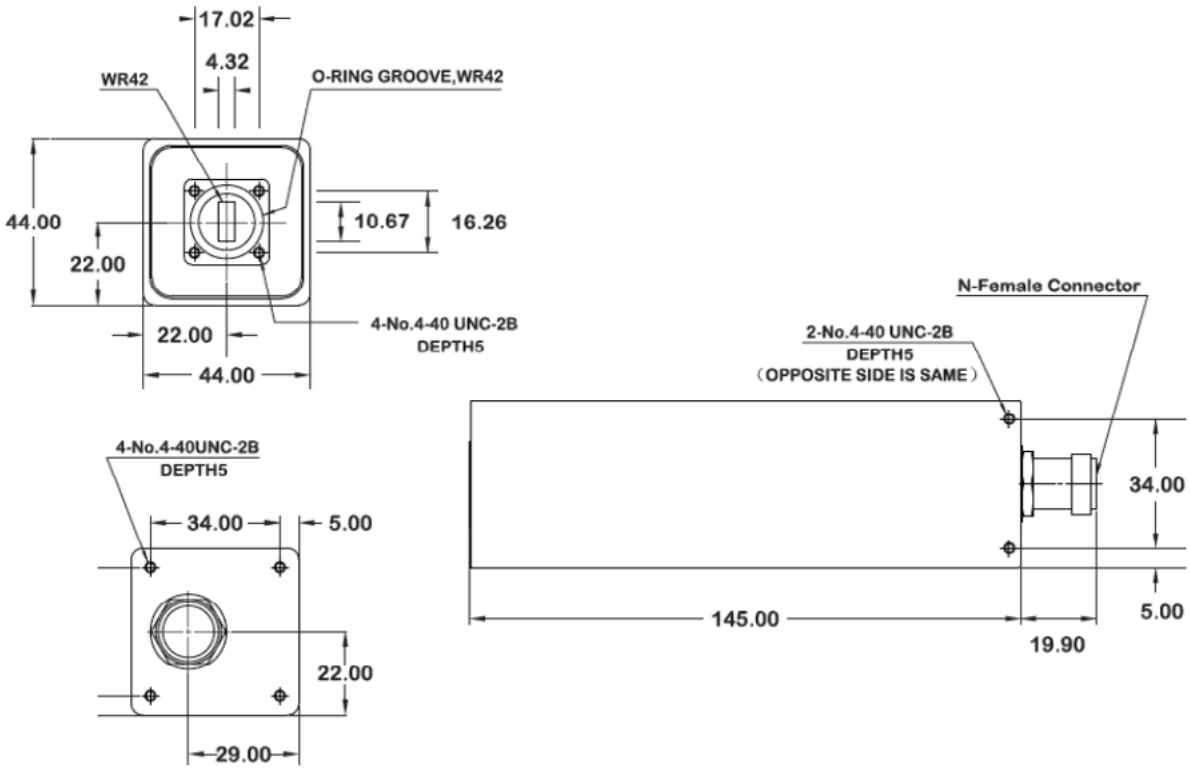
# Orbital Ka-Band LNB with Fixed LO & Internal Isolator

This external reference Ka LNB is a compact, completely sealed unit with a built-in isolator. Great for use with WGS or Global Express Satellites

It provides the same exceptional performance as the Orbital 694XA Ka-Band LNB with Fixed Local Oscillator but can fit into tighter spaces than a unit with an external isolator – and lowers the risk of water leakage. This LNB has a fixed LO and is available in the 19.20 to 21.20 GHz frequency range. It offers:

- Integrated Ka LNB and isolator – no gaskets required
- Superb VSWR performance and data throughput
- Options for high temperatures and temperature-compensated gain

This LNB is designed for both commercial and military satellite communications. It's used in ARSTRAT-certified terminals and complies with MIL-STD-188-164a and MIL-STD-810F.



# MODEL NUMBER: Ka ISO

| FREQUENCY RANGE | |
|---|---|
| RF Frequency Band (GHz) | 19.2 to 21.2 |
| IF Frequency Band (MHz) | 950 to 1950 |
| Bandwidth (MHz) | 1000 max |
| Local Oscillator (GHz) | 18.25 to 19.25 |
| Noise Figure (dB) | 1.4 max |
| LO Stability | Locked to external reference |
| LO Phase Noise | Locked to external reference |

| 10 MHz REFERENCE | |
|---|---|
| Insertion | via input connector |
| Input Level | -10 to +5 dBm |

| VSWR | |
|---|---|
| Input | 1.4:1 nominal |
| Output | 1.3:1 nominal |

| GAIN | |
|---|---|
| Gain (dB) | 60 nominal |
| Flatness | +/- 1.5 dB over frequency |
| Ripple | +/- 0.3 dB over any 10 MHz |
| Stability | +/- 0.25 dB over 24 hrs @ 25C |

| OTHER SPECS | |
|---|---|
| Image Rejection | -40 dBm min |
| LO Leakage | -45 dBm |
| 1 dB Compression (dBm) | +10 min |
| OIP3 (dBm) | +20 min |

| ENVIRONMENTAL | |
|---|---|
| Operating Temp | -40°C to +60°C |
| Non-Operating Temp Range | -50 to +70 C |
| Humidity | 100% condensing |
| MTBF | > 125,000 hours |
| Standards | RoHS and REACH |

| POWER[1] | |
|---|---|
| Current Draw | 300 mA |
| Input Voltage Range | +12 to +24 VDC |

| MECHANICAL | |
|---|---|
| Weight (grams) | 485 |
| Length (mm) | 128 |
| Width (mm) | 44 |
| Depth (mm) | 44 |
| Input Connector | WR-42 |
| Output Connector | F, N, SMA |

| OPTIONS |
|---|
| Extended temperature to +90C |
| Custom LO's available |
| Gain modifications, 55 and 65 dB |

Please contact Orbital Research for ordering information: sales@orbitalresearch.net

[1] Power supplies must meet 100 mV maximum ripple and noise