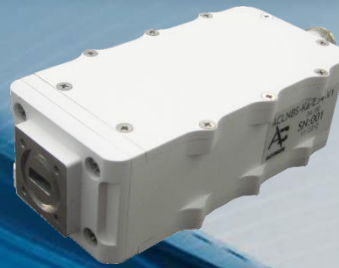


Ka-BAND LOW NOISE BLOCK (LNB)

ACLNBS-Ka-Ex-V3

Standard Series



Ed.11

05/10/16



ACLNBS-Ka Standard Series has been designed to meet restrictive specifications for Ka Band communication systems. The equipment has a typical gain of 60 dB with a noise figure lower than 1.5 dB, with low weight and dimensions.

ACLNBS-Ka Standard Series has been tested over the specified temperature range, providing good gain stability with temperature and very high reliability.

RECEIVER SPECIFICATIONS

| | |
|---|----------------------------------|
| Input frequency | 19.2 to 22.2 GHz (See options) |
| Input Ka-band VSWR (50 Ω) | < 1.3:1 |
| Output frequency..... | 950 to 2000 MHz (See options) |
| Output L-band VSWR (50 Ω)..... | < 2.0:1 |
| Spectrum inversion | None |
| Maximum input level without damage..... | 0 dBm |
| Gain | > 60 dB |
| Gain flatness over the whole bandwidth | ± 2.0 dB |
| Gain stability over 24 hours | ± 0.25 dB @ constant temperature |
| Gain variation over temperature..... | ± 2.0 dB over the whole range |
| Noise figure @ 25°C | ≤ 1.5 dB |
| Image rejection..... | > 45 dB |
| Output P1dB | > +10 dBm |
| In-Band Spurious..... | < -60 dBc @ Pout = 0 dBm |
| Output phase noise typical (IESS-308/309 – 5 dB) | |
| 100 Hz | -65 dBc/Hz |
| 1 kHz..... | -75 dBc/Hz |
| 10 kHz | -85 dBc/Hz |
| 100 kHz..... | -95 dBc/Hz |
| External reference (multiplexed on L-band output) | 10 MHz / 0 dBm ± 5 dB |
| DC input voltage (multiplexed on L-band output) | 9-15 V _{DC} |
| DC current consumption | 370 mA |
| Storage temperature | -40 to +85°C |
| Operating temperature..... | -20 to +60°C |
| Relative humidity | up to 100% |
| Operating altitude..... | up to 4500 m |

Interfaces

| | |
|--|---|
| RX input (Ka-Band) | WR42 grooved (PBR 220) |
| RX output (L-Band+DC+External Reference) | Type N(F) 50 Ω |
| Dimensions | 114 x 58 x 36 mm / 4.5 x 2.3 x 1.4 inches |
| Weight | 350 g / 0.8 lbs |
| Finish | RAL 9003 (White) |

| Ka-band input | L-band output | LO frequency | Standard frequency option |
|------------------|------------------|--------------|---------------------------|
| 19.2 to 20.2 GHz | 1000 to 2000 MHz | 18.200 GHz | ACLNBS-Ka-E1-V3 |
| 20.2 to 21.2 GHz | 1000 to 2000 MHz | 19.200 GHz | ACLNBS-Ka-E2-V3 |
| 20.2 to 21.2 GHz | 950 to 1950 MHz | 19.250 GHz | ACLNBS-Ka-E22-V3 |
| 21.2 to 22.2 GHz | 1000 to 2000 MHz | 20.200 GHz | ACLNBS-Ka-E60-V3 |

| | |
|------------|--|
| LN1: | RX output connector type SMA(F) 50 Ω |
| LN2: | Operating temperature -40 to +60°C |
| LN3: | Internal reference (ACLNBSI-Ka-Ex-V3 freq. stability ±1 ppm) |

Any other frequency band or custom specification available under request. Please, contact factory. Specifications are subject to change without notice.