

Innovative Communication Solutions

2007XTGF

2000 Triple-Band Ku-Band PLL LNB

(0.7 dB)

Frequency: G: 10.70 - 11.70 GHz | 11.70 - 12.70 GHz | 12.25 - 12.75 GHz L.O. Stability: External Reference Output Connector: F: 75 Ohm





KEY SPECIFICATIONS

| Band | Ku-Band |
|-------------------------|-------------------|
| Input Frequency Band 1 | 10.70 - 11.70 GHz |
| Input Frequency Band 2 | 11.70 - 12.70 GHz |
| Input Frequency Band 3 | 12.25 - 12.75 GHz |
| LO Frequency 1 | 9.75 GHz |
| LO Frequency 2 | 10.75 GHz |
| LO Frequency 3 | 11.30 GHz |
| LO Stability | Ext Ref |
| LO Туре | PLL |
| Noise Figure Max | 0.8 dB |
| Noise Figure Typ | 0.7 dB |
| Number Of Onboard Los | Triple-Band |
| Output Frequency Band 1 | 950 - 1950 MHz |
| Output Frequency Band 2 | 950 - 1950 MHz |
| Output Frequency Band 3 | 950 - 1450 MHz |
| Tone Frequency | 22 kHz ± 4 kHz |
| | |

RF SPECIFICATIONS

| Control Signal 1 | 13V / No Tone |
|---------------------|------------------|
| Control Signal 2 | 13V / 22kHz Tone |
| Control Signal 3 | 18V / No Tone |
| Conversion Gain Max | 65 dB |
| Conversion Gain Min | 55 dB |





| | | lr | novative Com | munication Solutions | | | |
|------------------------|--------------------------------|----------------------|--|--------------------------------|--|--|--|
| Conversion Gain Typ | | 60 dB | | | | | |
| Gain Flatness (over Fu | III Band) | ≤ 6 dB p-p | l de la constante de | | | | |
| Input VSWR | | 2.3 : 1 ma | x. | | | | |
| Output P1db | | + 5 dBm n | nin. | | | | |
| Output VSWR | | 2.2 : 1 ma | 2.2 : 1 max. | | | | |
| Phase Noise 0.1khz O | ffset Max | Depends | on External Reference | | | | |
| Phase Noise 1khz Offs | et Max | Depends | Depends on External Reference | | | | |
| Phase Noise 10khz Of | fset Max | Depends | Depends on External Reference | | | | |
| Phase Noise 100khz O | offset Max | Depends | on External Reference | | | | |
| ELECTRICAL | SPECIFICATIO | NS | | | | | |
| Current Consumption | Current Consumption 350 mA max | | | | | | |
| Power Requirements | | +12 to +24 | 1V DC | | | | |
| INTERFACE S | PECIFICATION | S | | | | | |
| IF Connector | | F-Connector | | | | | |
| RF Input Connector | | WR-75 wa | WR-75 waveguide grooved | | | | |
| ENVIRONMEN | ITAL SPECIFIC | ATIONS | | | | | |
| Humidity | | 0 - 95% | | | | | |
| IP Rating | | IP 66 | | | | | |
| Temperature Operation | Operational -40°C to +70°C | | | | | | |
| Temperature Storage | | -50 to +80 | -50 to +80°C | | | | |
| PHYSICAL SP | ECIFICATIONS | | | | | | |
| Product Height | | 1.70 in | | | | | |
| Product Length | | 4.46 in | | | | | |
| Product Weight | | 0.255 kg | | | | | |
| Product Width | | 1.72 in | | | | | |
| LOGISTICS SI | PECIFICATIONS | 5 | | | | | |
| HS Code | Country of Origin | Ex Works | ECCN Number | Unit Package | | | |
| | Made in Canada | Richmond, BC, Canada | EAR99 | 135 x 68 x 48 mm 0.335 kg | | | |

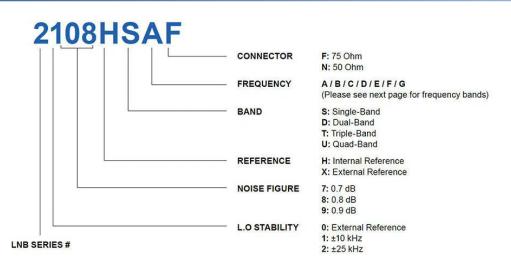
HOW TO ORDER



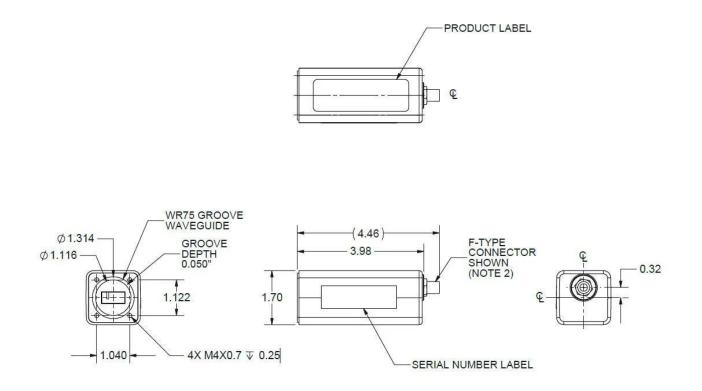
Norsat International Inc.



Innovative Communication Solutions



MECHANICAL DIAGRAMS







Norsat International Inc.

Innovative Communication Solutions

FREQUENCY BANDS

| Single Band | | | | | Dual Band | | | | | | | |
|-------------|----------|------------------------------|----------------|----------------|--------------------------|------|---------------|---------------|----------------|-----------------|------------------|------|
| Band | _ | freq (GHz) | L.O freq (GHz) | | utput freq | Band | RF freq (GHz) | | L.O freq (GHz) | Output freq | Voltage/Tone | |
| A | | 1.7 - 12.20 | 10.75 | | - 1450 MHz | - A | Band 1 | 10.95 - 11.70 | 10 | 950 - 1700 MHz | 13 V | |
| B | | 2.25 - 12.75 0.95 - 11.70 | 11.3 10 | | - 1450 MHz - 1700 MHz | | Band 2 | 10.00 11.10 | | | | |
| D | | 0.70-11.80 | 9.75 | | - 1700 MHz - 2050 MHz | | | 11.70 - 12.75 | 10.75 | 950 - 2000 MHz | 18 V | |
| | | | Triple Band | 2000 2000 1112 | | | Band 1 | 10.70 - 11.70 | 9.75 | 950 - 1950 MHz | 13 V | |
| Band | RF | freq (GHz) | L.O freq (GHz) | Output freq | Voltage/Tone | В | в | Danu i | 10.70 - 11.70 | 5.15 | 330 - 1330 Miliz | 13 Y |
| | Band 1 | 10.95 - 11.70 | 10 | 950 - 1700 MHz | 13 V | | Band 2 | 11.70 - 12.75 | 10.75 | 950 - 2000 MHz | 18 V | |
| A | Band 2 | 11.70 - 12.20 | 10.75 | 950 - 1450 MHz | 13 V / 22 kHz | с | Band 1 | 10.95 - 11.70 | 10 | 950 - 1700 MHz | 13 V | |
| | Band 3 | 12.20 - 12.75 | 11.25 | 950 - 1500 MHz | 18 V | | Band 2 | 12.25 - 12.75 | 11.3 | 950 - 1450 MHz | 18 V | |
| | Band 1 | 10.95 - 11.70 | 10 | 950 - 1700 MHz | 13 V | D | Band 1 | 10.70 - 11.70 | 9.75 | 950 - 1950 MHz | 13 V | |
| в | Band 2 | 11.70 - 12.25 | 10.75 | 950 - 1500 MHz | 13 V / 22 kHz | | Dana 1 | 10.10 11.10 | 0.70 | 000 1000 1112 | | |
| | Daniel 2 | 40.05 40.75 | 44.2 | 050 4450 141- | 40.1/ | | Band 2 | 11.70 - 12.75 | 10.6 | 1100 - 2150 MHz | 18 V | |
| | Band 3 | 12.25 - 12.75 | 11.3 | 950 - 1450 MHz | 18 V | | | | Quad Band | | | |
| | Band 1 | 10.70 - 11.70 | 9.75 | 950 - 1950 MHz | 13 V | Band | RF | freq (GHz) | L.O freq (GHz) | Output freq | Voltage/Tone | |
| с | Band 2 | 11.70 - 12.20 | 10.75 | 950 - 1450 MHz | 13 V / 22 kHz | A | Band 1 | 10.70 - 11.20 | 9.75 | 950 - 1450 MHz | 13 V | |
| | Band 3 | 12.20 - 12.75 | 11.25 | 950 - 1500 MHz | 18 V | | Band 2 | 11.20 - 11.70 | 10.25 | 950 - 1450 MHz | 13 V / 22 kHz | |
| | Band 1 | 10.70 - 11.70 | 9.75 | 950 - 1950 MHz | 13 V | | Band 3 | 11.70 - 12.25 | 10.75 | 950 - 1500 MHz | 18 V | |
| D | Band 2 | 11.70 - 12.25 | 10.75 | 950-1500 MHz | 13 V / 22 kHz | | Band 4 | 12.25 - 12.75 | 11.3 | 950 - 1450 MHz | 18 V / 22kHz | |
| 5 | | | | | | в | Band 1 | 10.70 - 10.95 | 9.75 | 950 - 1200 MHz | 13 V | |
| | Band 3 | 12.25 - 12.75 | 11.3 | 950-1450 MHz | 18 V | | Band 2 | 10.95 - 11.70 | 10 | 950 - 1700 MHz | 13 V / 22 kHz | |
| | Band 1 | 10.95 - 11.70 | 10 | 950 - 1700 MHz | 13 V | | Band 3 | 11.70 - 12.25 | 10.75 | 950 - 1500 MHz | 18 V | |
| E | Band 2 | 11.55 - 12.25 | 10.6 | 950 - 1650 MHz | 13 V / 22 kHz | | Band 4 | 12.25 - 12.75 | 11.3 | 950 - 1450 MHz | 18 V / 22kHz | |
| | Band 3 | 12.20 - 12.70 | 11.25 | 950 - 1450 MHz | 18 V | с | Band 1 | 10.70 - 11.20 | 9.75 | 950 - 1450 MHz | 13 V | |
| | Band 1 | 10.70 - 11.80 | 9.75 | 950 - 2050 MHz | 13 V | | Band 2 | 11.20 - 11.70 | 10.25 | 950 - 1450 MHz | 13 V / 22 kHz | |
| F | Band 2 | 10.95 - 12.10 | 10 | 950 - 2100 MHz | 13 V / 22 kHz | | Band 3 | 11.70 - 12.20 | 10.75 | 950 - 1450 MHz | 18 V | |
| | Band 3 | 11.70 - 12.75 | 10.75 | 950 - 2000 MHz | 18 V | | Band 4 | 12.20 - 12.75 | 11.25 | 950 - 1500 MHz | 18 V / 22kHz | |
| | Band 1 | 10.70 - 11.70 | 9.75 | 950 - 1950 MHz | 13 V | D | Band 1 | 10.95 - 11.45 | 10 | 950 - 1450 MHz | 13 V | |
| | Band 2 | 11.70 - 12.70 | 10.75 | 950 - 1950 MHz | 13 V / 22 kHz | | Band 2 | 11.45 - 11.95 | 10.5 | 950 - 1450 MHz | 13 V / 22 kHz | |
| G | band 2 | 11.70 - 12.70 | 10.75 | 900 - 1950 MHZ | 13 V / 22 KHZ | | Band 3 | 11.70 - 12.20 | 10.75 | 950 - 1450 MHz | 18 V | |
| | Band 3 | 12.25 - 12.75 | 11.3 | 950 - 1450 MHz | 18 V | | Band 4 | 12.20 - 12.75 | 11.25 | 950 - 1500 MHz | 18 V / 22kHz | |



Esatcom Inc Norsat authorized distributor www.esatcom.com Tel 718.799.0084

Email sales@esatcom.com