

7500HPAN

7000 Five-Band Ka-Band PLL LNB

Frequency: A: 17.20 - 18.20 GHz | 18.00 - 19.00 GHz |
18.70 - 19.70 GHz | 19.40 - 20.40 GHz | 20.30 -
21.30 GHz

L.O. Stability: +/- 50 kHz

Output Connector: N: 50 Ohm



KEY SPECIFICATIONS

| | |
|--------------------------------|-------------------|
| Band | Ka-Band |
| Input Frequency Band 1 | 17.20 - 18.20 GHz |
| Input Frequency Band 2 | 18.00 - 19.00 GHz |
| Input Frequency Band 3 | 18.70 - 19.70 GHz |
| Input Frequency Band 4 | 19.40 - 20.40 GHz |
| Input Frequency Band 5 | 20.30 - 21.30 GHz |
| LO Frequency 1 | 16.25 GHz |
| LO Frequency 2 | 17.05 GHz |
| LO Frequency 3 | 17.75 GHz |
| LO Frequency 4 | 18.45 GHz |
| LO Stability | ±50 kHz |
| LO Type | PLL |
| Noise Figure Max | 1.5 dB |
| Noise Figure Typ | 1.3 dB |
| Number Of Onboard Los | Five-Band |
| Output Frequency Band 1 | 950 - 1950 MHz |
| Output Frequency Band 2 | 950 - 1950 MHz |
| Output Frequency Band 3 | 950 - 1950 MHz |
| Output Frequency Band 4 | 950 - 1950 MHz |
| Tone Frequency | 22 kHz ± 4 kHz |

RF SPECIFICATIONS

| | |
|-------------------------|---------------|
| Control Signal 1 | 13V / No Tone |
|-------------------------|---------------|

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| | |
|--------------------------------|------------------|
| Control Signal 2 | 13V / 22kHz Tone |
| Control Signal 3 | 18V / No Tone |
| Control Signal 4 | 18V / 22kHz Tone |
| Control Signal 5 | 24V / No Tone |
| Conversion Gain Max | 65 dB |
| Conversion Gain Min | 55 dB |
| Conversion Gain Typ | 60 dB |
| Gain Flatness (over Full Band) | ≤ 5 dB p-p max. |
| Input VSWR | 2.5 : 1 max. |
| Output P1db | + 5 dBm min. |
| Phase Noise 0.1kHz Offset Max | -125 dBc/Hz max. |

ELECTRICAL SPECIFICATIONS

| | |
|---------------------|----------------|
| Current Consumption | 450 mA max |
| Power Requirements | +12 to +24V DC |

INTERFACE SPECIFICATIONS

| | |
|--------------------|-------------------------|
| IF Connector | N-Connector |
| RF Input Connector | WR-42 Waveguide Grooved |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|----------------|
| Humidity | 0 - 100% |
| IP Rating | IP 66 |
| Temperature Operational | -40°C to +70°C |
| Temperature Storage | -45 to +80°C |

PHYSICAL SPECIFICATIONS

| | |
|----------------|---------|
| Product Height | 1.70 in |
| Product Length | 4.67 in |
| Product Weight | 0.4 kg |
| Product Width | 1.72 in |

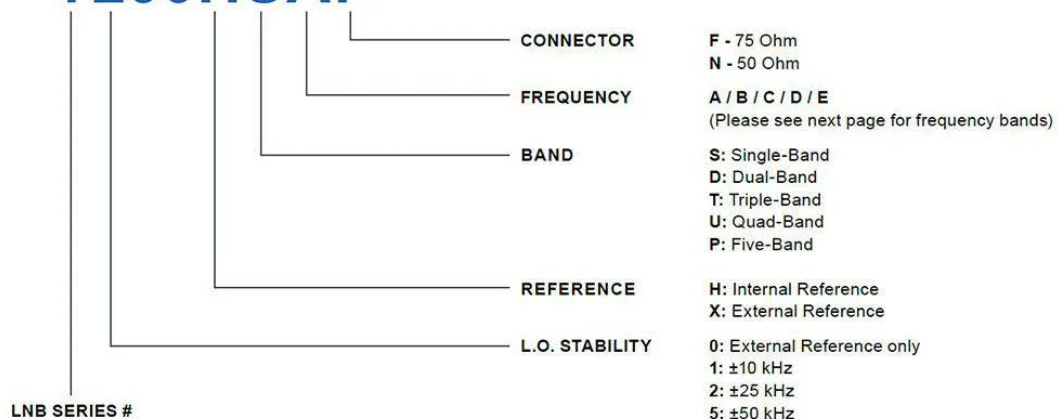
LOGISTICS SPECIFICATIONS

| HS Code | Country of Origin | Ex Works | ECCN Number | Unit Package |
|---------|-------------------|----------------------|-------------|----------------------------------|
| | Made in Canada | Richmond, BC, Canada | EAR99 | 135 mm x 68 mm x 48 mm 0.48 kg |

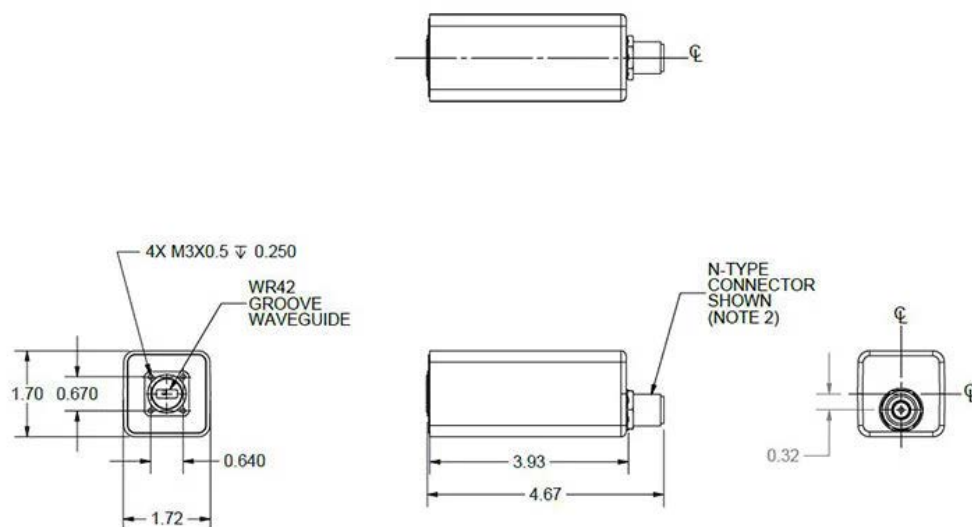
HOW TO ORDER



7200HSAF



MECHANICAL DIAGRAMS





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| Dual Band | | | | Triple Band | | | |
|-----------|----------------|---------------|---------------|-------------|----------------|---------------|---------------|
| Band | RF freq. (GHz) | | Voltage/Tone | Band | RF Freq. (GHz) | | Voltage/Tone |
| A | Band 1 | 17.75 - 18.75 | 13 V | A | Band 1 | 17.70 - 18.70 | 13 V |
| | Band 2 | 18.35 - 19.35 | 18 V | | Band 2 | 18.45 - 19.45 | 13 V / 22 kHz |
| | | | | | Band 3 | 19.20 - 20.20 | 18 V |
| B | Band 1 | 18.20 - 19.20 | 13 V | B | Band 1 | 17.70 - 18.70 | 13 V |
| | Band 2 | 19.20 - 20.20 | 18 V | | Band 2 | 18.70 - 19.70 | 13 V / 22 kHz |
| | | | | | Band 3 | 19.70 - 20.20 | 18 V |
| C | Band 1 | 18.40 - 19.40 | 13 V | C | Band 1 | 17.90 - 18.30 | 13 V |
| | Band 2 | 19.20 - 20.20 | 18 V | | Band 2 | 18.30 - 19.30 | 13 V / 22 kHz |
| | | | | | Band 3 | 19.30 - 20.30 | 18 V |
| D | Band 1 | 19.20 - 20.20 | 13 V | D | Band 1 | 18.20 - 19.20 | 13 V |
| | Band 2 | 20.20 - 21.20 | 18 V | | Band 2 | 19.20 - 20.20 | 13 V / 22 kHz |
| | | | | | Band 3 | 20.20 - 21.20 | 18 V |
| E | Band 1 | 17.20 - 18.20 | 13 V | E | Band 1 | 17.50 - 18.50 | 13 V |
| | Band 2 | 17.50 - 18.50 | 18 V | | Band 2 | 18.20 - 19.20 | 13 V / 22 kHz |
| | | | | | Band 3 | 19.20 - 20.20 | 18 V |
| Quad Band | | | | Five Band | | | |
| Band | RF Freq. (GHz) | | Voltage/Tone | Band | RF Freq. (GHz) | | Voltage/Tone |
| A | Band 1 | 17.20 - 18.20 | 13 V | A | Band 1 | 17.20 - 18.20 | 13 V |
| | Band 2 | 18.20 - 19.20 | 13 V / 22 kHz | | Band 2 | 18.00 - 19.00 | 13 V / 22 kHz |
| | Band 3 | 19.20 - 20.20 | 18 V | | | | |
| | Band 4 | 20.20 - 21.20 | 18 V / 22 kHz | | Band 3 | 18.70 - 19.70 | 18 V |
| B | Band 1 | 17.50 - 18.50 | 13 V | | Band 4 | 19.40 - 20.40 | 18 V / 22 kHz |
| | Band 2 | 18.40 - 19.40 | 13 V / 22 kHz | | | | |
| | Band 3 | 19.30 - 20.30 | 18 V | Band 5 | 20.30 - 21.30 | 24 V | |
| | Band 4 | 20.20 - 21.20 | 18 V / 22 kHz | | | | |