■ O3b Networks K-band **PLL** LNB

MODEL No. **NJR2828** series

The Unit (Low Noise Amplifier with Downconverter, a weatherized housing for outdoor use) downconverts K-band RF signal (17.852 to 19.271 GHz) to L-band IF signal.

< Features >

* RF Frequency:

- 17.852 - 18.588 GHz with 16.800 GHz LO
- 18.372 - 19.271 GHz with 17.400 GHz LO

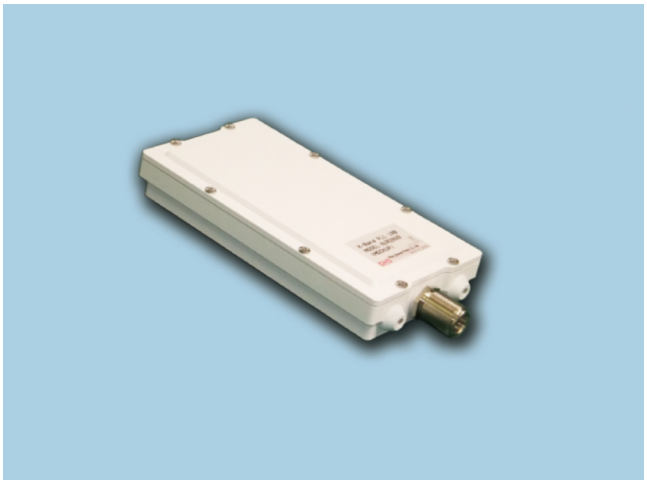
* Low Noise Temperature:

- Noise Temperature: 101 K typ., 120 K max.

* High LO Stability:

- LO Stability: +/- 1.5 ppm

* Reliable All-weather Performance



< Line-up >

Model No.	RF Frequency	Local Frequency	IF Frequency	LO Stability	Noise Temperature	Power Supply
NJR2828L	17.852 to 18.588 GHz	16.800 GHz	1,052 to 1,788 MHz	+/- 1.5 ppm	101 K typ. 120 K max.	+18 - +30 V DC Power
NJR2828H	18.372 to 19.271 GHz	17.400 GHz	972 to 1,871 MHz			

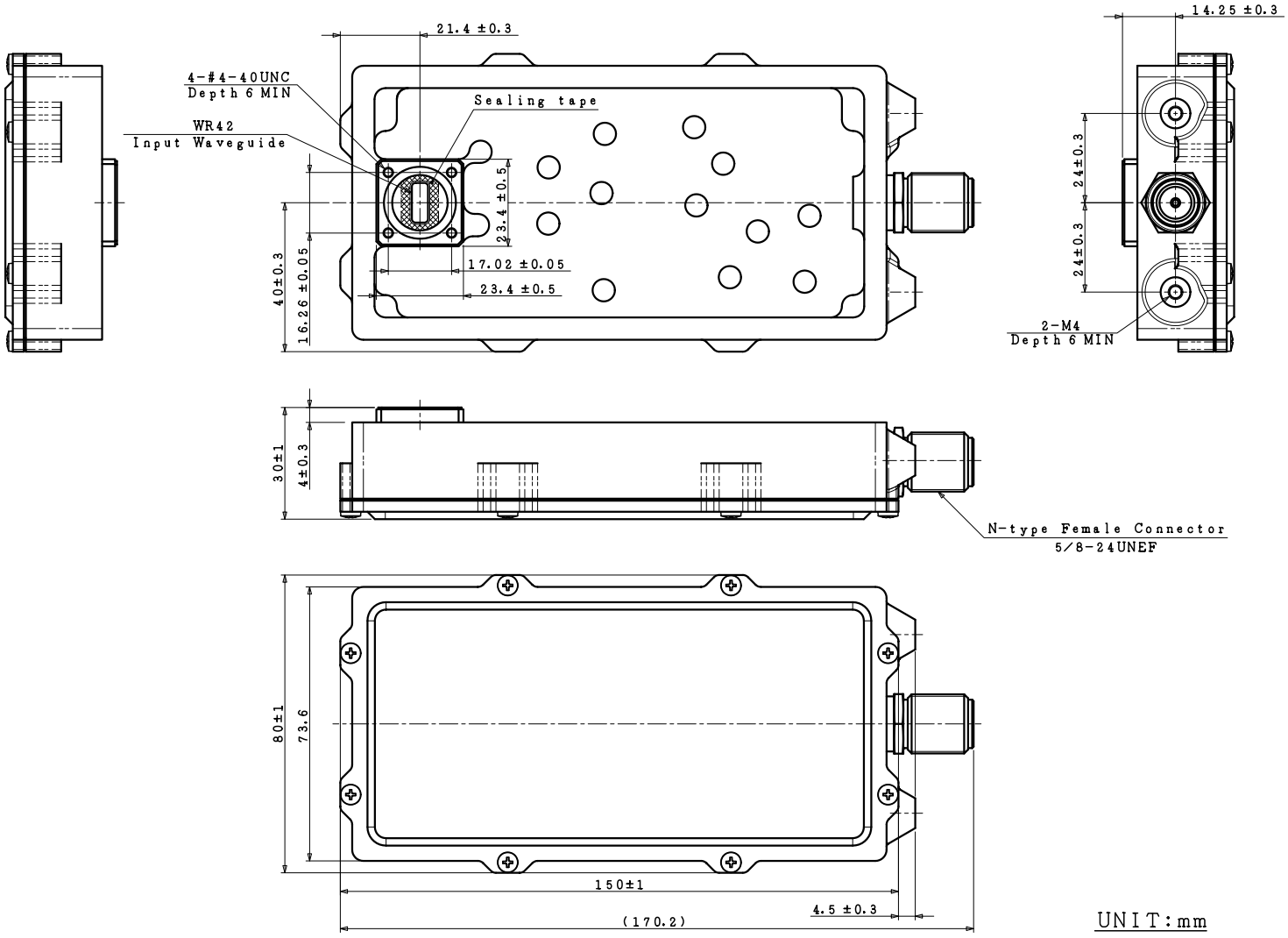
< Specifications >

Item	Specifications
Input Interface	Waveguide, WR42 with Groove
Output Interface	N-type, female connector (50 ohm)
Noise Temperature	101 K typ., 120 K max.
Conversion Linear Gain	55 dB min.
Power Output at 1dB G.C.P.	+10 dBm min.
The Third Order Intercept Point	+20 dBm min.
L.O. Phase Noise	-63 dBc/Hz max. @ 100 Hz -73 dBc/Hz max. @ 1 kHz -83 dBc/Hz max. @ 10 kHz -93 dBc/Hz max. @ 100 kHz
Internal Reference Stability	Over Temperture and Initial Setting: +/- 1.5 ppm max. Long term over All Conditions: +/- 3.5 ppm max.
Input Return Loss	10 dB
Output Return Loss	10 dB
Power Requirement	+18 to +30 V DC Power
Power Consumption	4 W max.
Temperature Range (ambient)	Operating: -20 to +50 C
Dimension & Housing	150 mm (L) x 80 mm (W) x 30 mm (H) [5.91" (L) x 3.15" (W) x 1.18" (H)] without Interface Connectors
Weight	500 g [1.1 lbs]

*Note: The contents of this sheet are subject to change without notice.

JRC New Japan Radio Co.,Ltd.
Microwave Components Division
2-1-1 Fukuoka Fujimino-city SAITAMA 356-8510 JAPAN
Tel: +81-49-278-1271 URL: http://mc.njr.co.jp email: mcsales@njr.co.jp

< Outline Drawing >



UNIT:mm

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