



Internal Reference Type Ku-band PLL LNB

MODEL NO. NJR2535S / H

MODEL NO. NJR2536S / H

MODEL NO. NJR2537S / H

MODEL NO. NJR2539S

<Description>

This specification defines the Low Noise Block downconverter (LNB) intended for the satellite data communication downlink application in the Ku-band.

This LNB has a combined 3-stage HEMT amplifier and block downconverter with Phase Locked Local, which is constituted with a S-band VCO, Multiplier, Loop Filter and TCXO providing high stability and low phase noise.

All specifications shall apply throughout the full range of the specified environmental conditions unless otherwise specified.

<Line-Up>

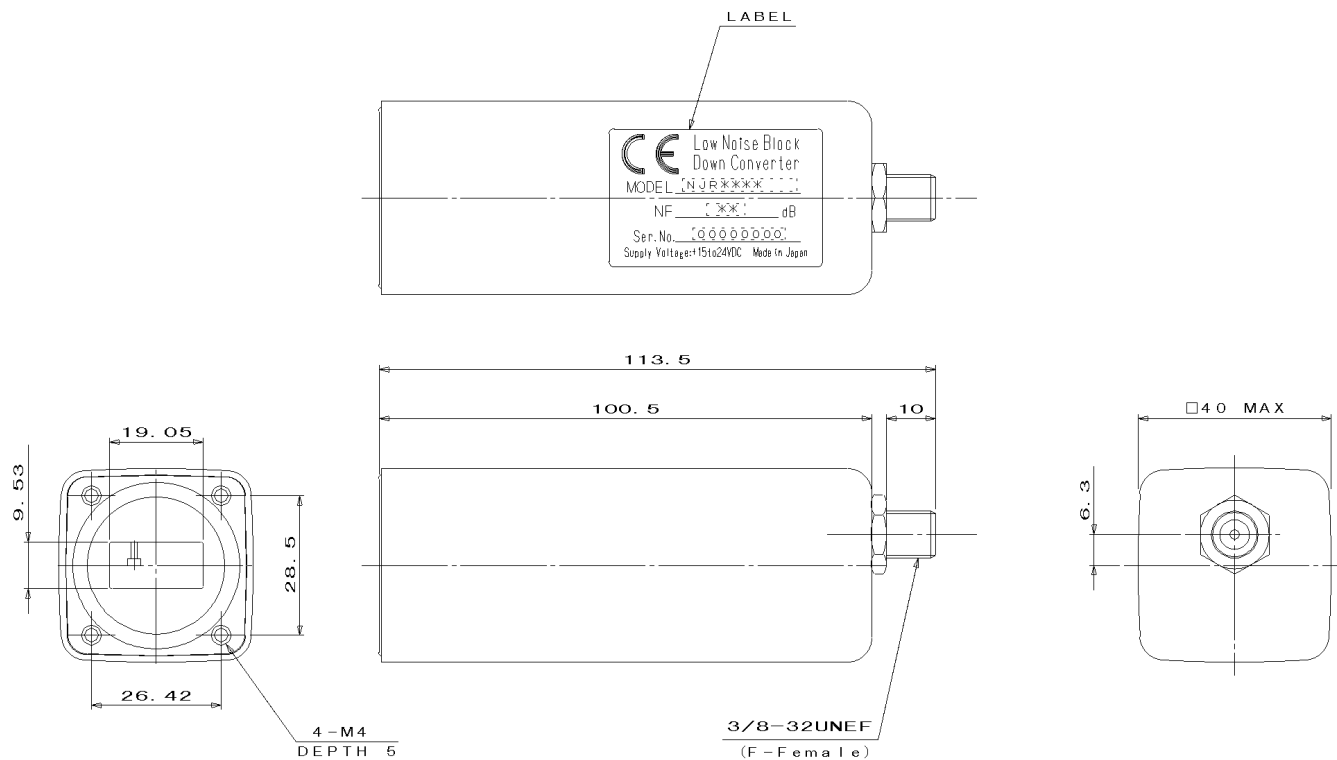
Model No.	RF Frequency	Local Frequency	Local Stability [-40 to +60 °C]	IF Frequency
NJR2537H	10.95 to 11.70 GHz	10.00 GHz	+/- 10 ppm	950 to 1,700 MHz
NJR2537S			+/- 3 ppm	
NJR2539S	11.20 to 11.70 GHz	10.25 GHz	+/- 3 ppm	950 to 1,450 MHz
NJR2535H	11.70 to 12.20 GHz	10.75 GHz	+/- 10 ppm	950 to 1,450 MHz
NJR2535S			+/- 3 ppm	
NJR2536H	12.25 to 12.75 GHz	11.30 GHz	+/- 10 ppm	950 to 1,450 MHz
NJR2536S			+/- 3 ppm	

<Specifications>

Item	Specifications
Input Waveguide Flange	WR75
Output Connector	Type F-female (Option: type N-female)
Noise Figure (at 25 °C)	0.8 dB typ.
Conversion Gain (at 25 °C)	55 dB min. 60 dB typ.
Conversion Gain Variation (at 25 °C)	2 dB max. In any 50 MHz segment over the frequency band.
Phase Noise (SSB)	-57 dBc/Hz at 100 Hz -67 dBc/Hz at 1 kHz
Spurious	-140 dBm max. At input, fixed frequency spurious, unrelated to test CW signal. -50 dBc max. With test CW signal -10dBm IF output. (measured at specified IF band; 950 to 1,450 MHz or 1,700MHz)
Power Requirement	+15 to +24V DC
Power Consumption	5 W max. @ +24 V
Operating Temperature Range	-40 to +60 °C
Storage Temperature Range	-40 to +80 °C



<Outline Drawing>



Unit: mm



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