Ku-band DRO Type Single LNB

MODEL NO. NJR2144F / HW / HA

MODEL NO. NJR2151AA / AB

MODEL NO. NJR2154A / HW / HA

MODEL NO. NJR2183F

MODEL NO. NJR2184F / HW

<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 RF amplifier, Mixer, IF amplifier and free running DRO providing high stability and low phase noise.
All specifications shall apply throughout the full range of the specified environmental conditions unless otherwise specified.

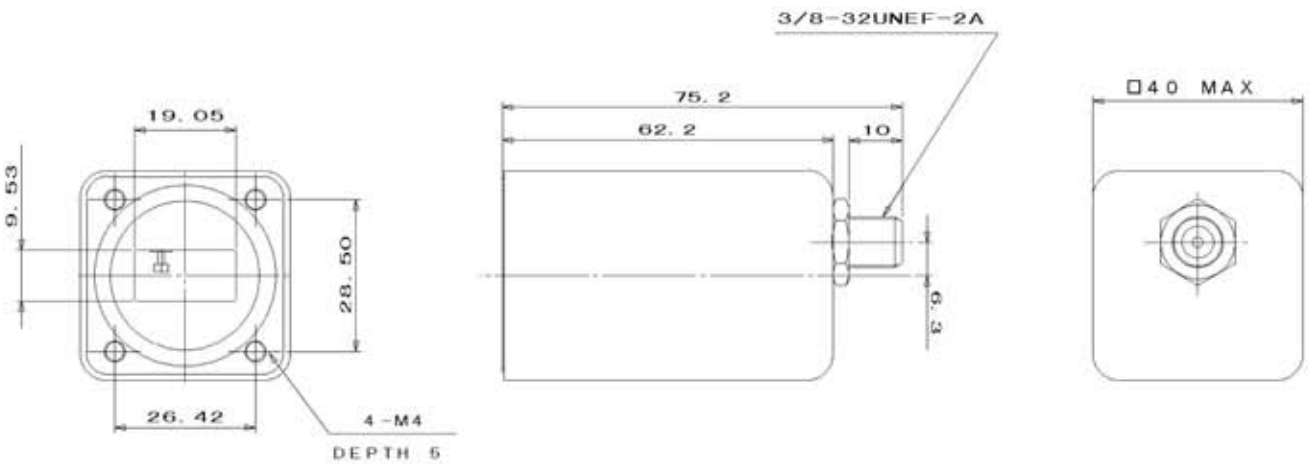
<Line-Up>

Model No.	RF Frequency	Local Frequency	Local Stability [-40 to +60 °C]	IF Frequency
NJR2184F	10.95 to 11.70 GHz	10.00 GHz	+/- 1.5 MHz	950 to 1,700 MHz
NJR2184HW			+/- 0.9 MHz	
NJR2183F	11.20 to 11.70 GHz	10.25 GHz	+/- 1.5 MHz	950 to 1,450 MHz
NJR2144F	11.70 to 12.20 GHz	10.75 GHz	+/- 1.5 MHz	950 to 1,450 MHz
NJR2144HW			+/- 0.9 MHz	
NJR2144HA			+/- 0.5 MHz	
NJR2151AA	12.20 to 12.75 GHz	11.20 GHz	+/- 1.5 MHz	1,000 to 1,550 MHz
NJR2151AB			+/- 0.9 MHz	
NJR2154A	12.25 to 12.75 GHz	11.30 GHz	+/- 1.5 MHz	950 to 1,450 MHz
NJR2154HW			+/- 0.9 MHz	
NJR2154HA			+/- 0.5 MHz	

<Specifications>

Item	Specifications
Input Waveguide Flange	WR75
Output Connector	Type F-female
Noise Figure (at 25 °C)	0.8 dB typ.
Conversion Gain (at 25 °C)	54 dB typ.
Conversion Gain Variation (at 25 °C)	2 dB max. In any 50 MHz segment over the frequency band.
Phase Noise (SSB)	-60 dBc/Hz at 1 kHz -80 dBc/Hz at 10 kHz -100 dBc/Hz at 100 kHz
Power Requirement	+15 to +24V dc
Power Consumption	170 mA max.
Operating Temperature Range	-40 to +60 °C
Storage Temperature Range	-40 to +80 °C

<Outline Drawing>



Unit: mm