

■ Ku-band PLL LNB - External Reference -

MODEL No. **NJR2934E/35E/36E/37E/39E** series

< Features >

* **Low Noise Figure**

• Noise Figure: 0.8 dB

* **Low DC Current Drain**

• DC Current Drain: 200 mA

* **Small Size & Light Weight**

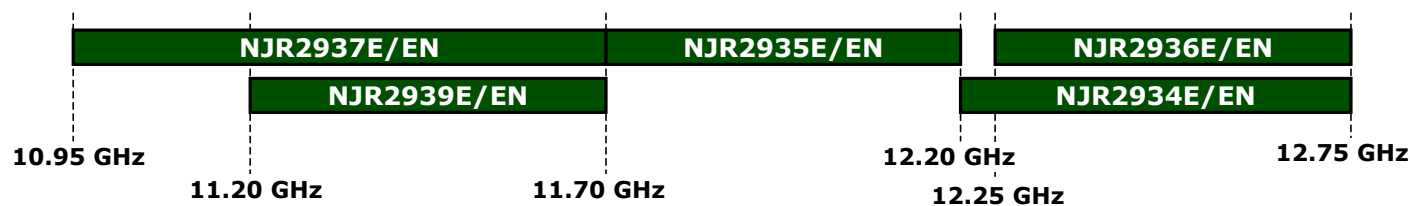
• Weight: 260 g

* **RoHS Compliance**

< Line-Up >

Model No.	RF Frequency	Local Frequency	IF Connector	Local Stability	IF Connector	Power Supply
NJR2937E	10.95 to 11.70GHz	10.00 GHz	950 to 1,700 MHz	Depends on External Reference	F-type	+24 VDC (+12 to +24 VDC)
NJR2937EN					N-type	
NJR2939E	11.20 to 11.70 GHz	10.25 GHz	F-type			
NJR2939EN			N-type			
NJR2935E	11.70 to 12.20 GHz	10.75 GHz	F-type			
NJR2935EN			N-type			
NJR2934E	12.20 to 12.75 GHz	11.25 GHz	F-type			
NJR2934EN			N-type			
NJR2936E	12.25 to 12.75 GHz	11.30 GHz	F-type			
NJR2936EN			N-type			

Frequency Matrix



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< Specifications >

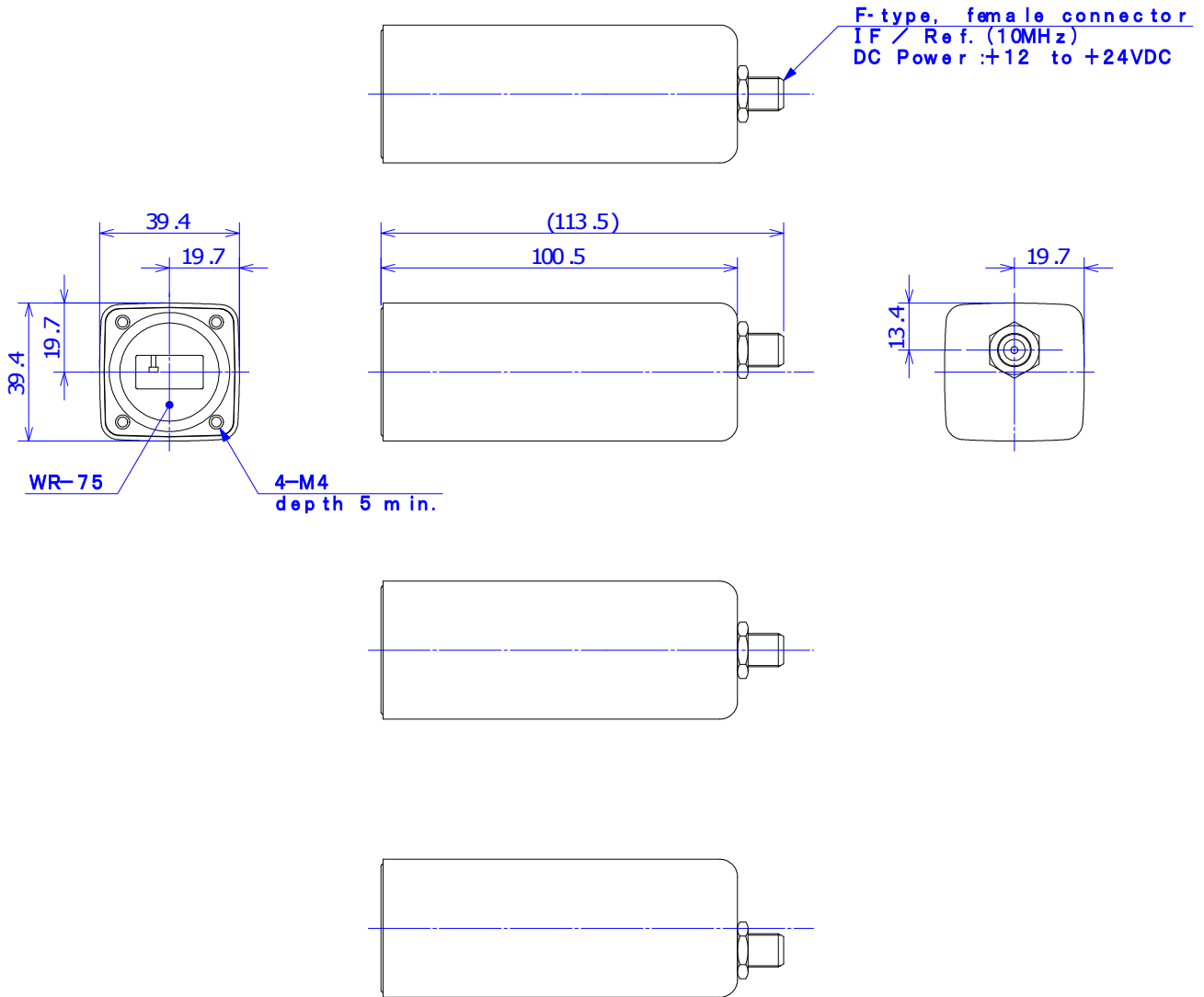
Item	Specifications	
Input Interface	Waveguide, WR75 (with Groove)	
Output Interface	N-type, female (50 ohm)	[Model No.: NJR2934EN/35EN/36EN/37EN/39EN]
	F-type, female (75 ohm)	[Model No.: NJR2934E/35E/36E/37E/39E]
Noise Figure (Ta.: +25 C)	0.8 dB typ., 1.0 dB max.	
Linear Gain (Ta.: +25 C)	60 dB typ., 55 dB min.	
Requirement for External Reference	[Input Port]	IF Output connector
	[Frequency]	10 MHz (sine-wave)
	[Input Power]	-10 to 0 dBm @ Input port
	[Phase Noise]	-135 dBc/Hz max. @ 100 Hz
		-143 dBc/Hz max. @ 1 kHz
L.O. Phase Noise	-145 dBc/Hz max. @ 10 kHz	
	-75 dBc/Hz typ. @ 100 Hz	
	-80 dBc/Hz typ. @ 1 kHz	
	-85 dBc/Hz typ. @ 10 kHz	
L.O. Leakage Level	-95 dBc/Hz typ. @ 100 kHz	
	-25 dBm max. at the IF Output Connector	
Spurious	-60 dBm max. at the RF Input Flange	
	a) -140 dBm max.	
	at input, Fixed frequency spur, unrelated to test CW signal (Measured at specified IF band).	
	b) -55 dBc max.	
	with test CW signal -10 dBm IF output (Measured at specified IF band).	
Input V.S.W.R.	2.5 : 1 typ.	
Output V.S.W.R.	2.3 : 1 max.	
Power Requirement	+24 VDC (+12 to +24 VDC)	
Current Drain	200 mA max.	
Temperature Range (ambient)	-40 to +60 C (operating), -40 to +80 C (storage)	
Dimension & Housing (without Interface Connectors)	100.5 mm (L) x 40 mm (W) x 40 mm (H)	
	[3.96" (L) x 1.57" (W) x 1.57" (H)]	
Weight	260 g [0.57 lbs]	

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< Outline Drawing >

NJR2934E/35E/36E/37E/39E



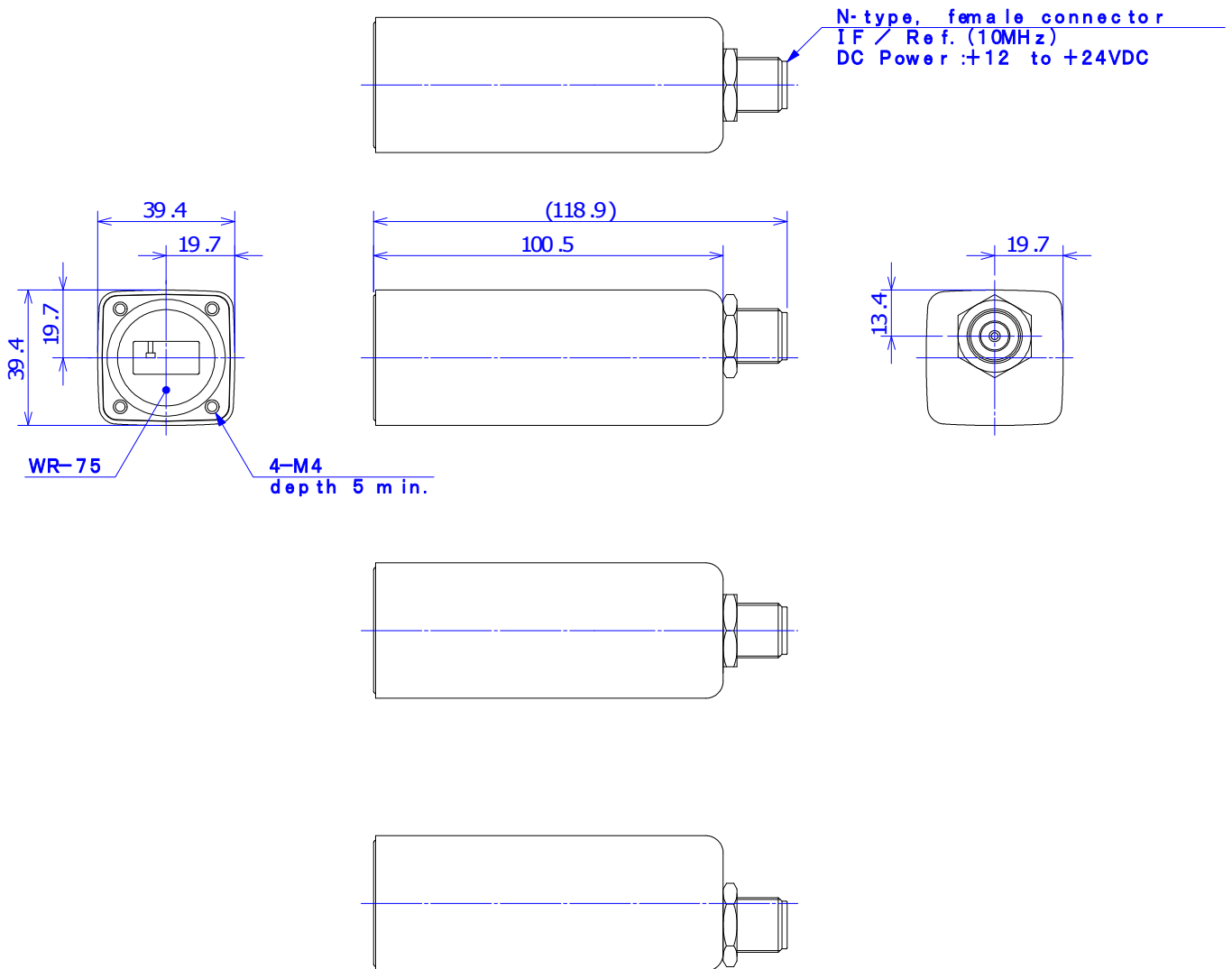
Unit: mm

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< Outline Drawing >

NJR2934EN/35EN/36EN/37EN/39EN



Unit: mm



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