

■ C-band PLL LNB - External Reference -

MODEL No. NJS8486E, NJS8487E, & NJS8488E series

< Features >

- * **Low Noise Temperature**
 - Noise Temperature: 15 K
- * **Low DC Current Drain**
 - DC Current Drain: 350 mA
- * **Small Size & Light Weight**
 - Weight: 800 g
- * **RoHS Compliance**



< Line-Up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector	Power Supply
NJS8486E	3.400 to 4.200 GHz (Palapa C-band)	5.15 GHz	950 to 1,750 MHz	Depends on External Reference	F-type	+24 VDC (+12 to +24 VDC)
NJS8486EN					N-type	
NJS8487E	3.625 to 4.200 GHz (Standard C-band)		950 to 1,525 MHz		F-type	
NJS8487EN					N-type	
NJS8488E	4.500 to 4.800 GHz (Insat C-band)	5.76 GHz	960 to 1,260 MHz		F-type	
NJS8488EN					N-type	

< Specifications >

Item	Specifications	
Input Interface	Waveguide, CPR229 (with Groove)	
Output Interface	N-type, female (50 ohm)	[Model No.: NJS8486EN/87EN/88EN]
	F-type, female (75 ohm)	[Model No.: NJS8486E/87E/88E]
Noise Temperature (Ta.: +25 °C)	15 K typ., 30 K max.	
Linear Gain (Ta.: +25 °C)	59 dB min., 66 dB max.	
Local Stability	Depends on External Reference	
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
		-145 dBc/Hz max. @ 10 kHz
L.O. Phase Noise	-70 dBc/Hz typ. @ 100 Hz	
	-80 dBc/Hz typ. @ 1 kHz	
	-85 dBc/Hz typ. @ 10 kHz	
	-95 dBc/Hz typ. @ 100 kHz	
Spurious	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).	
Output V.S.W.R.	2.5 : 1 max.	
Power Requirement	+24 VDC (+12 to +24 VDC)	
Current Drain	350 mA max.	
Temperature Range (ambient)	-40 to +60 °C (operating), -40 to +80 °C (storage)	
Waterproof/Dustproof (IP Code)	IP 67	
Dimension & Housing (without Interface Connectors)	80.8 mm (L) x 99.6 mm (W) x 76 mm (H) [3.18" (L) x 3.92" (W) x 2.99" (H)]	
Weight	800 g [1.76 lbs]	

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

Rev.06(Jun. 2018) C PLL LNB (Ext. Ref.)_NJS8486E/87E/88E

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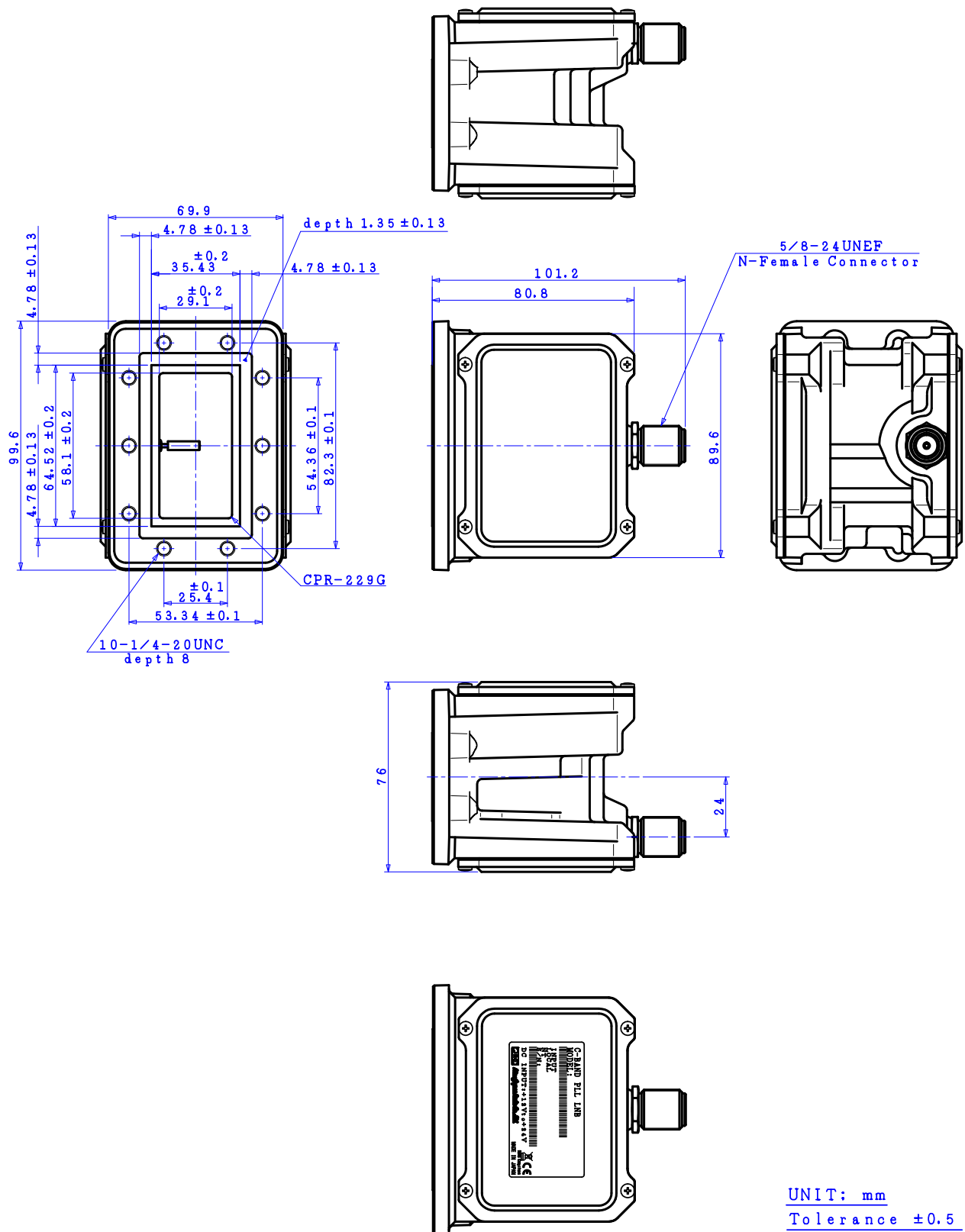
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< Outline Drawing >

N-type, female Connector Model



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< Outline Drawing >

F-type, female Connector Model

