



STEP Electronics
**NJRC 5W C Band BUC NJT5669/
 NJT5670/NJT5675/NJT5677**
Series



< Features >

- * **High Efficiency Output Power**
 - P1dB: +37.0 dBm min. over temperature
- * **Low Power Consumption**
 - Power Consumption: 48 W
- * **Small Size & Light Weight**
 - Weight: 1.9 kg
- * **LED Indicator**
- * **RoHS Compliance**



< Line-up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	Power Supply	LED Indicator
NJT5669	5.85 to 6.425 GHz (Standard C-band)	4.90 GHz	950 to 1,525 MHz	5W Linear (+37 dBm min.)	N-type	+24 VDC (+15 to +30 VDC)	Equipped
NJT5669F					F-type		
NJT5675N	6.365 to 6.725 GHz (Palapa C-band)	5.30 GHz	1,065 to 1,425 MHz		N-type		
NJT5675F					F-type		
NJT5677N	5.85 to 6.725 GHz (Full C-band)	4.90 GHz	950 to 1,825 MHz		N-type		
NJT5677F					F-type		
NJT5670	6.725 to 7.025 GHz (Insat C-band)	5.76 GHz	965 to 1,265 MHz		N-type		
NJT5670F					F-type		

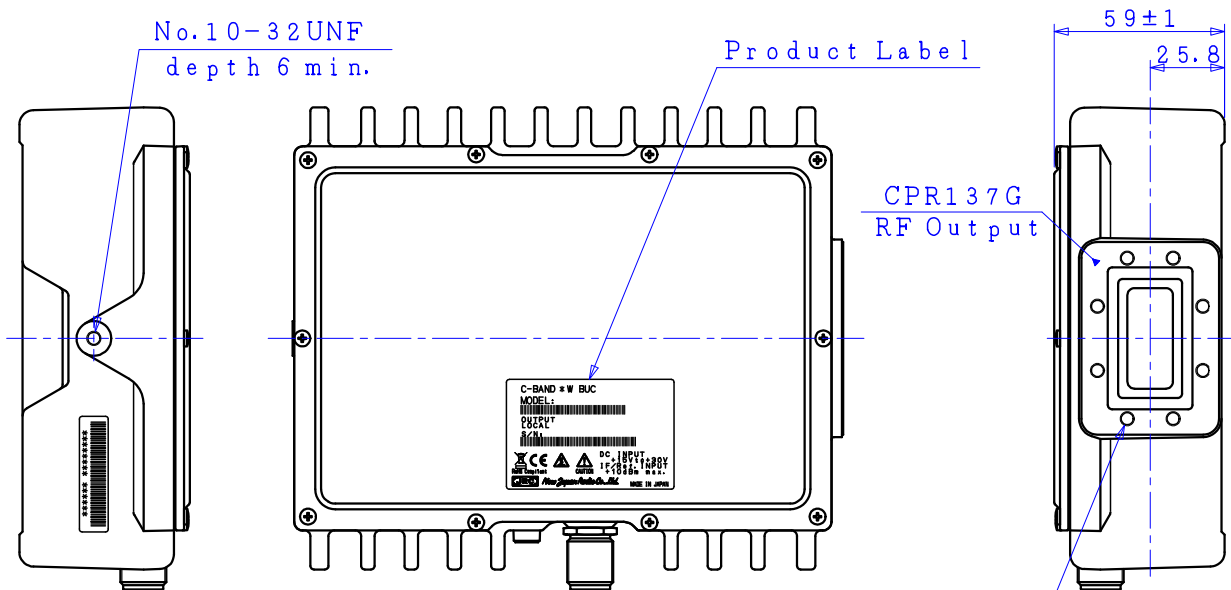
< Specifications >

Item	Specifications
Output Interface	Waveguide, CPR137 (with Groove)
Input Interface	N-type, female (50 ohm) [Model No.: NJT5669/70/75N/77N] F-type, female (75 ohm) [Model No.: NJT5669F/70F/75F/77F]
Output Power @ 1 dB G.C.P.	+37 dBm min. over temperature
Linear Gain	61 dB nom.
Requirement for External Reference	[Frequency] 10 MHz (sine-wave) [Input Power] -5 to +5 dBm @ Input port [Phase Noise] -120 dBc/Hz max. @ 100 Hz -130 dBc/Hz max. @ 1 kHz -140 dBc/Hz max. @ 10 kHz -150 dBc/Hz max. @ 100 kHz
L.O. Phase Noise	-60 dBc/Hz max. @ 100 Hz -70 dBc/Hz max. @ 1 kHz -80 dBc/Hz max. @ 10 kHz -90 dBc/Hz max. @ 100 kHz
Receive Band Noise Density	-87 dBm/4kHz max.
Input V.S.W.R.	2.0 : 1 max.
Output V.S.W.R.	2.0 : 1 max.
Power Requirement	+24 VDC (+15 to +30 VDC)
Power Consumption	48 W max.
Mute	Shut off the HPA in case of L.O. unlocked or no 10 MHz reference signal.
LED Indicator	GREEN: L.O. locked / RED: L.O. unlocked or no 10 MHz reference signal
Temperature Range (ambient)	-40 to +55 °C (operating), -40 to +75 °C (storage)
Waterproof/Dustproof (IP Code)	IP 67
Dimension & Housing (without Interface Connectors)	190.6 mm (L) x 160 mm (W) x 59 mm (H) [7.50" (L) x 6.30" (W) x 2.32" (H)]
Weight	1.9 kg [4.2 lbs]

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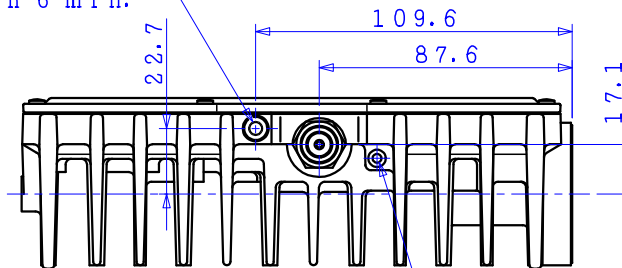
< Outline Drawing >

N-type, female Connector Models



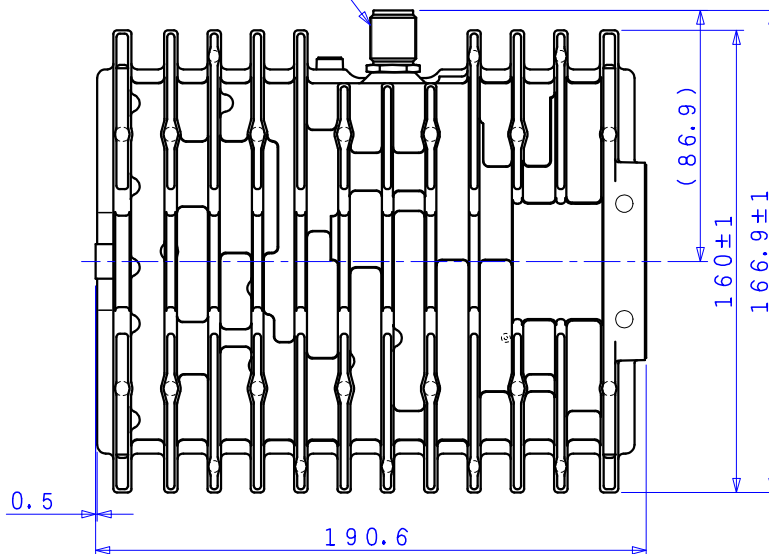
Grounded hole
No.10-32UNF
depth 6 min.

8-No.10-32UNF
depth 6 min.



N-type Female Connector
IF/Ref.(10MHz) Input
DC Power:+15 to +30 VDC

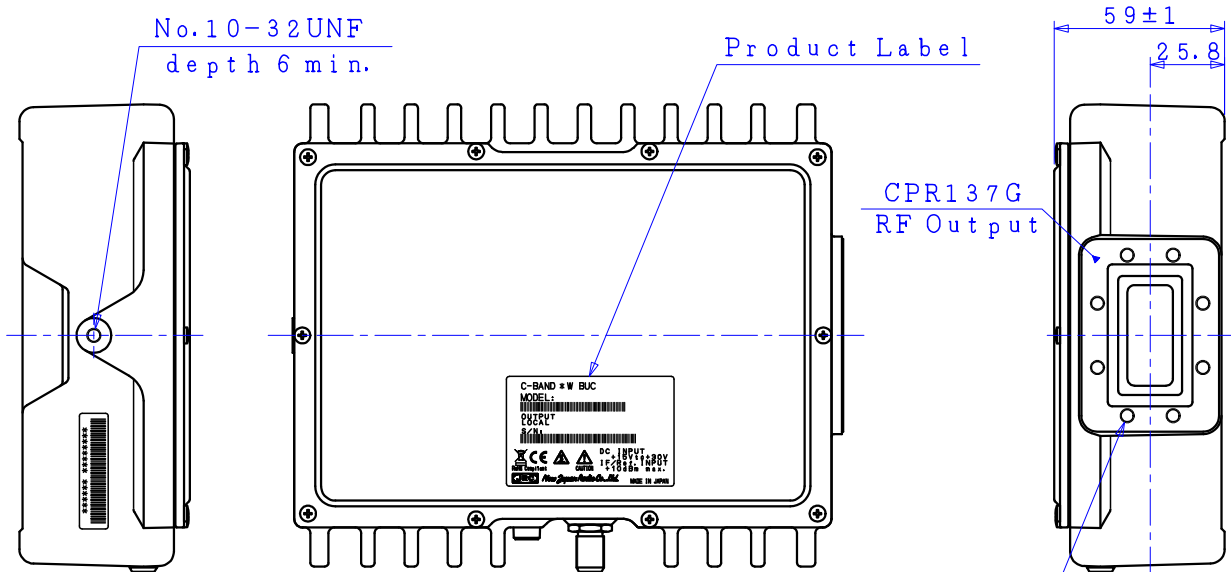
LED Indicator



UNIT: mm
Tolerance ±0.5

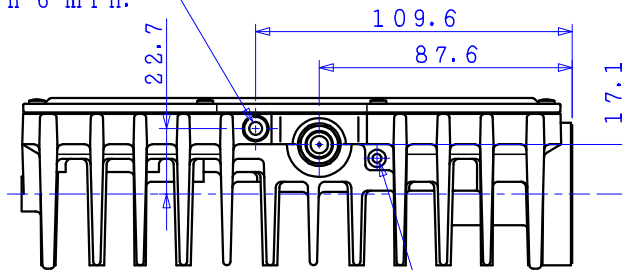
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F-type, female Connector Models



Ground Hole
No.10-32UNF
depth 6 min.

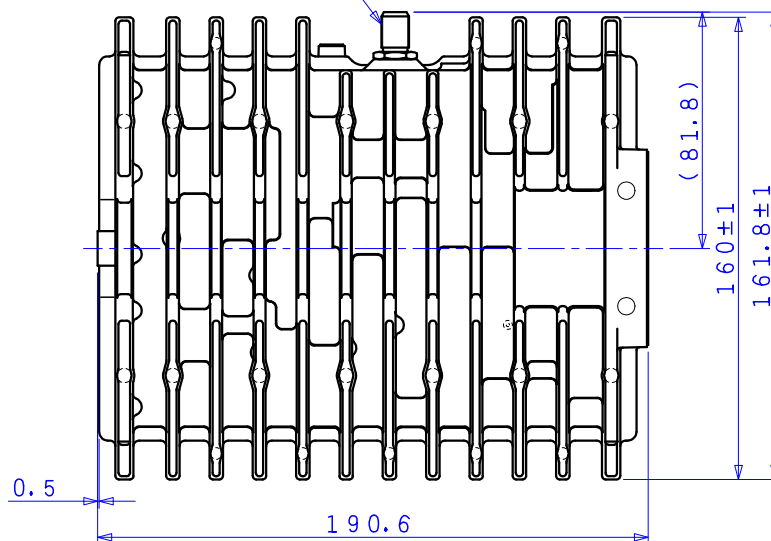
8-No.10-32UNF
depth 6 min.



LED Indicator

F-type Female Connector

IF/Ref.(10MHz) Input
DC Power:+15 to +30 VDC



UNIT: mm
Tolerance ±0.5