

■ Standard Ku-band 4W BUC | Block Upconverter

MODEL No. **NJT5307** series

< Features >

- * **High Efficiency Output Power**
 - P1dB: +36 dBm min. over temperature
 - Power Consumption: 37 W max.
 - ACPR: 26 dBc @ Pout = +35 dBm
- * **Compact Size & Light Weight**
 - Weight: 1.7 kg
- * **LED Indicator Equipped**
- * **RoHS Compliance**



< Line-Up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	Power Supply	LED Indicator
NJT5307N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz	4W Linear (+36 dBm min.)	N-type	+24 VDC (+15 to +30 VDC)	Equipped
NJT5307F					F-type		

< Specifications >

Item	Specifications	
Output Interface	Waveguide, WR75 (with Groove)	
Input Interface	N-type, female (50 ohm)	[Model No.: NJT5307N]
	F-type, female (75 ohm)	[Model No.: NJT5307F]
Output Power @ 1dB G.C.P.	+36 dBm min. over temperature	
Linear Gain	56 dB min.	
ACPR	26 dBc @ Pout = +35 dBm	
Requirement for External Reference	[Frequency]	10 MHz (sine-wave)
	[Input Power]	-5 to +5 dBm @ Input port
	[Phase Noise]	-125 dBc/Hz max. @ 100 Hz
		-135 dBc/Hz max. @ 1 kHz
L.O. Phase Noise		-140 dBc/Hz max. @ 10 kHz
		-60 dBc/Hz max. @ 100 Hz
		-70 dBc/Hz max. @ 1 kHz
		-80 dBc/Hz max. @ 10 kHz
Receive Band Noise Density @ Pout ≤ +36 dBm		-90 dBc/Hz max. @ 100 kHz
		-156 dBm/Hz max. @10.95 to 12.75 GHz
Input V.S.W.R.	2 : 1 max.	
Output V.S.W.R.	2 : 1 max.	
Power Requirement	+24 (+15 to +30 VDC)	
Power Consumption	37 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 10MHz reference signal	
Temperature Range (ambient)	-40 to +55 C (operating) -40 to +75 C (storage)	
Dimension & Housing (without Interface Connectors)	175.9 (L) x 143 (W) x 56.5 (H) mm [6.26" (L) x 5.63" (W) x 2.22" (H)]	
Weight	1.7 kg [3.7 lbs]	

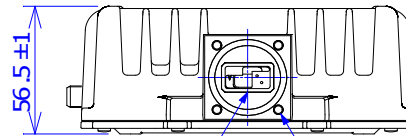
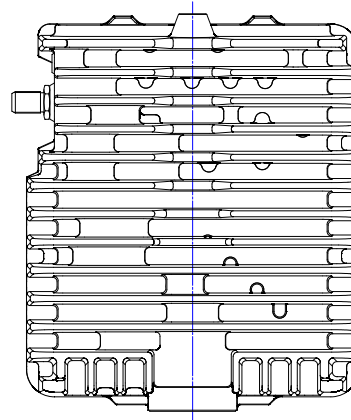
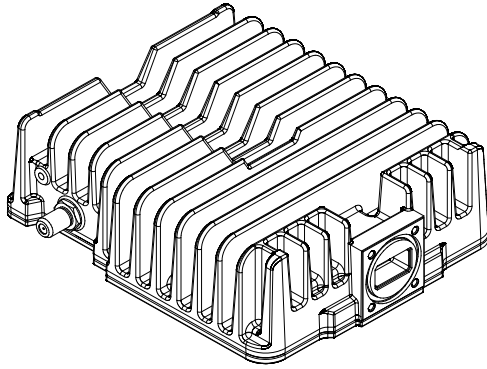
*Note: The contents of this sheet are subject to change without notice.

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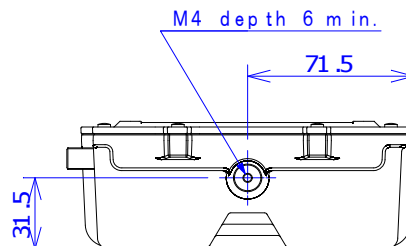
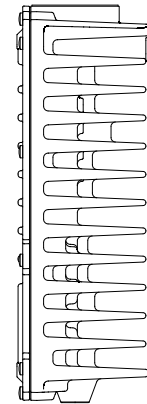
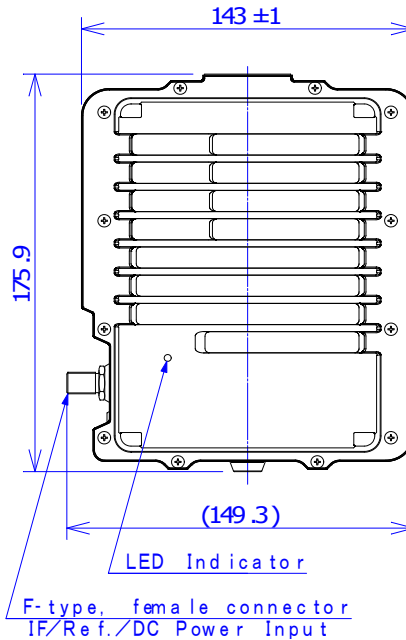
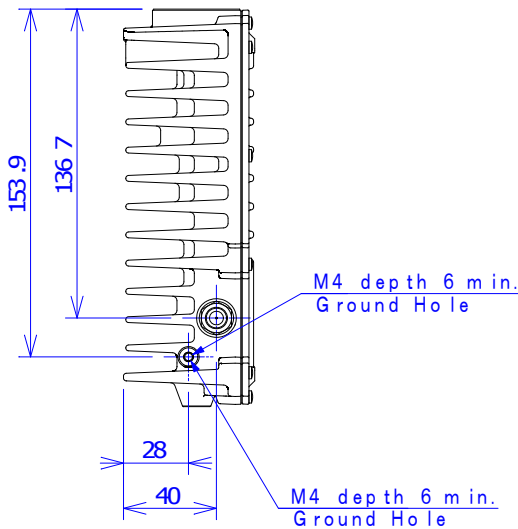
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< Outline Drawing >

e.g. **NJT5307F**



WR75 (with Grooved) RF Output
4-M4 depth 6 min.



Unit: mm

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