

Ku-band 1W / 2W / 3W Block Upconverter

MODEL NO. NJT5035 / 35F

MODEL NO. NJT5036 / 36F

MODEL NO. NJT5037 / 37F



<Features>

- * Small Size & Light Weight
- * High Efficiency Output Power
(1W / 2W / 3W @P1dB over temperature)
- * Low Power Consumption
- * RoHS Compliance

<Line-Up>

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5035	14.0 to 14.5 GHz	13.05 GHz	950 to 1,450 MHz	1W	N-Type
NJT5035F				(+30 dBm min.)	F-Type
NJT5036				2W	N-Type
NJT5036F				(+33 dBm min.)	F-Type
NJT5037				3W	N-Type
NJT5037F				(+35 dBm typ.)	F-Type

<Specifications>

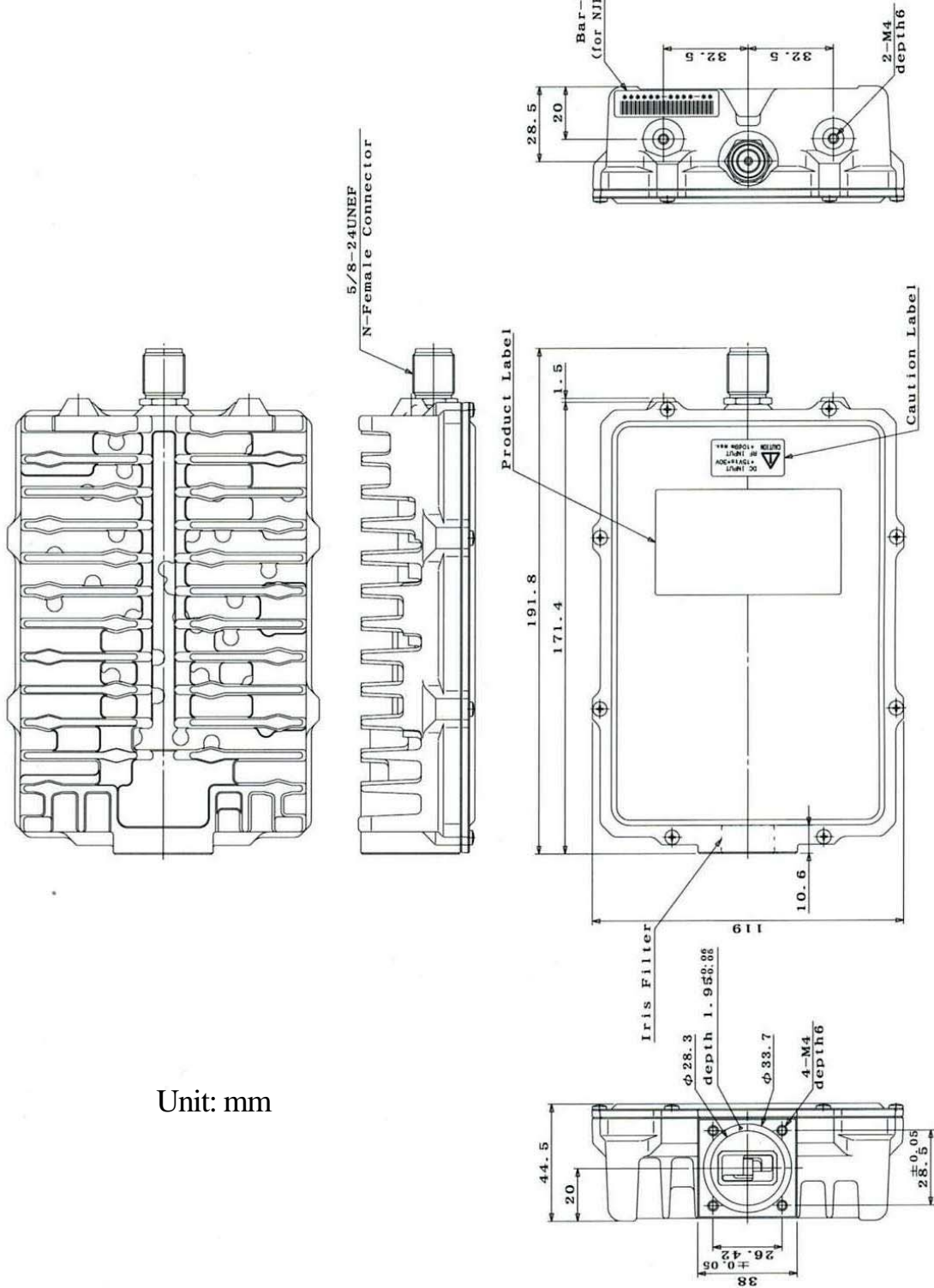
Item	Specifications
Output Interface	Waveguide, WR-75
Output Power @ P1 dB	+30 dBm minimum over temperature [NJT5035/35F] +33 dBm minimum over temperature [NJT5036/36F] +35 dBm typical, +33 dBm minimum over temperature [NJT5037/37F]
Conversion Gain	50 dB nom. [NJT5035/35F] 53 dB nom. [NJT5036/36F/37/37F]
Phase Noise (SSB)	-60 dBc/Hz max. @ 100 Hz -70 dBc/Hz max. @ 1 kHz -80 dBc/Hz max. @ 10 kHz -90 dBc/Hz max. @ 100 kHz
Required External Reference Signal	Frequency: 10 MHz Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz max. @ 100 Hz -135 dBc/Hz max. @ 1 kHz -140 dBc/Hz max. @ 10 kHz
Input Interface	N-type, female (50 ohm) [NJT5035/36/37] F-type, female (75 ohm) [NJT5035F/36F/37F]
Input / Output V.S.W.R.	2.0:1 max. @ Input 2.0:1 max. @ Output
Mute	Shut off the HPA in case of LO unlocked
Power Requirement	+15 to +30 V dc

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Item	Specifications
Power Consumption	24 W max. [NJT5035/35F] 26 W max. [NJT5036/36F] 30 W max. [NJT5037/37F]
Operating Temperature	-40 to +55 degrees C
Storage Temperature	-40 to +75 degrees C
Size	191.8 mm (L) x 119 mm (W) x 44.5 mm (H) [7.55" (L) x 4.69" (W) x 1.75" (H)] (NJT5035/36/37) 186.7 mm (L) x 119 mm (W) x 44.5 mm (H) [7.35" (L) x 4.69" (W) x 1.75" (H)] (NJT5035F/36F/37F)
Weight	1.2 kg max. [2.6 lbs]

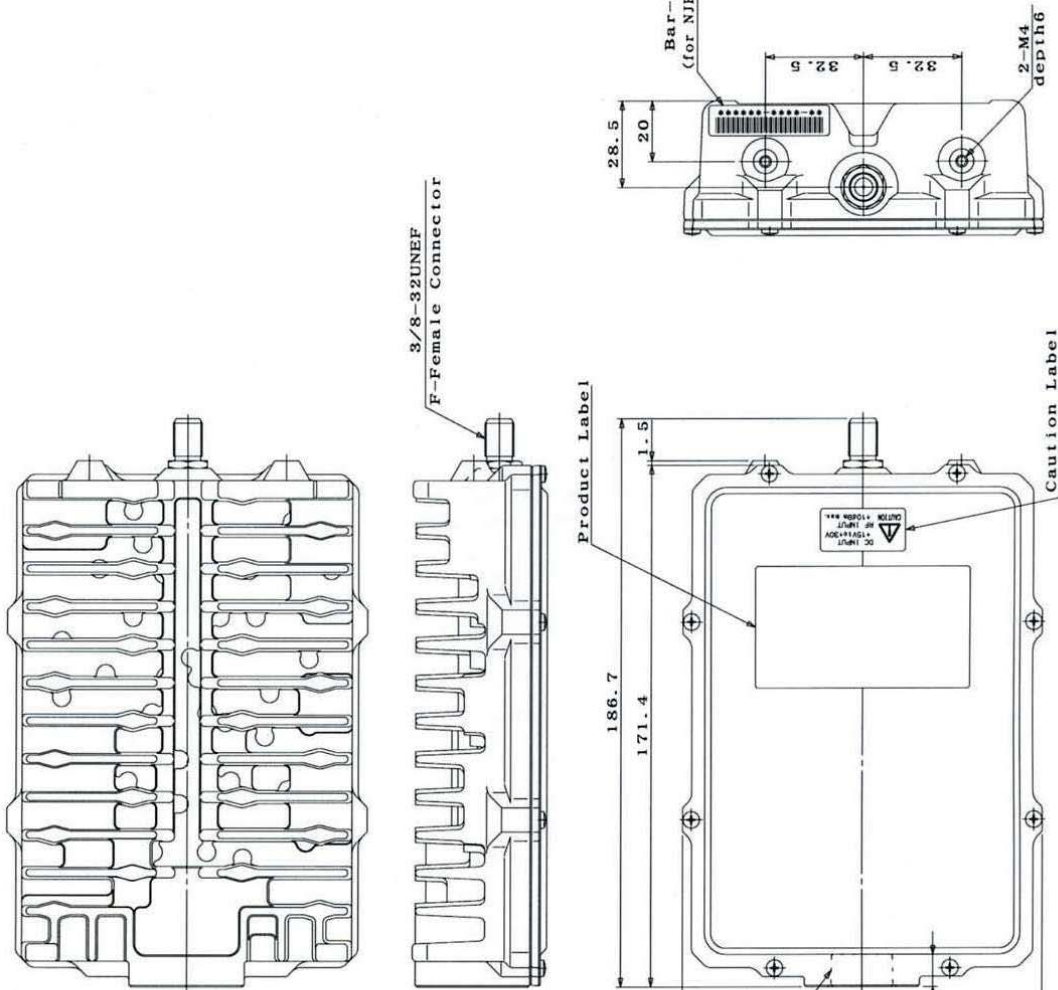
<Outline Drawing>

Type1 (N-type Female Input Connector):
NJT5035/36/37

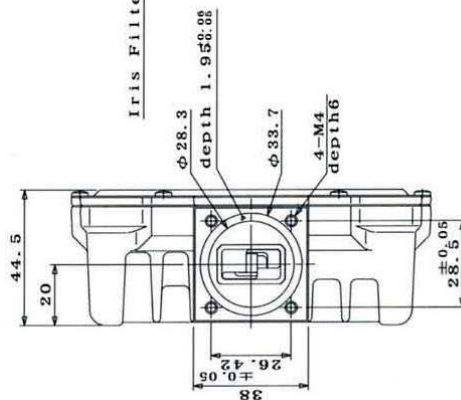
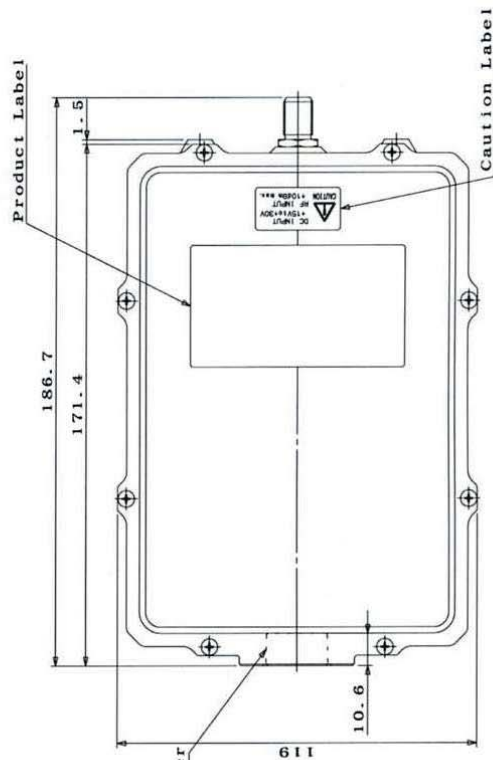


Unit: mm

Type2 (F-type Female Input Connector):
 NJT5035F/36F/37F



Unit: mm



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