

# Ku-band 4W Block Upconverter

**MODEL No. NJT5017 / 17F**

**MODEL No. NJT5017L / 17FL**



## < Features >

- \* Small Size & Light Weight
- \* High Efficiency Output Power  
(4W minimum @P1dB over temperature)
- \* Low Power Consumption
- \* LED Indicator \* only NJT5017L/17FL
- \* RoHS Compliance

## < Line-Up >

| Model No. | RF Frequency     | Local Frequency | IF Frequency     | Output Power                | Connector | LED       |
|-----------|------------------|-----------------|------------------|-----------------------------|-----------|-----------|
| NJT5017   | 14.0 to 14.5 GHz | 13.05 GHz       | 950 to 1,450 MHz | 4W Linear<br>(+36 dBm min.) | N-Type    | N/A       |
| NJT5017F  |                  |                 |                  |                             | F-Type    |           |
| NJT5017L  |                  |                 |                  |                             | N-Type    | Available |
| NJT5017FL |                  |                 |                  |                             | F-Type    |           |

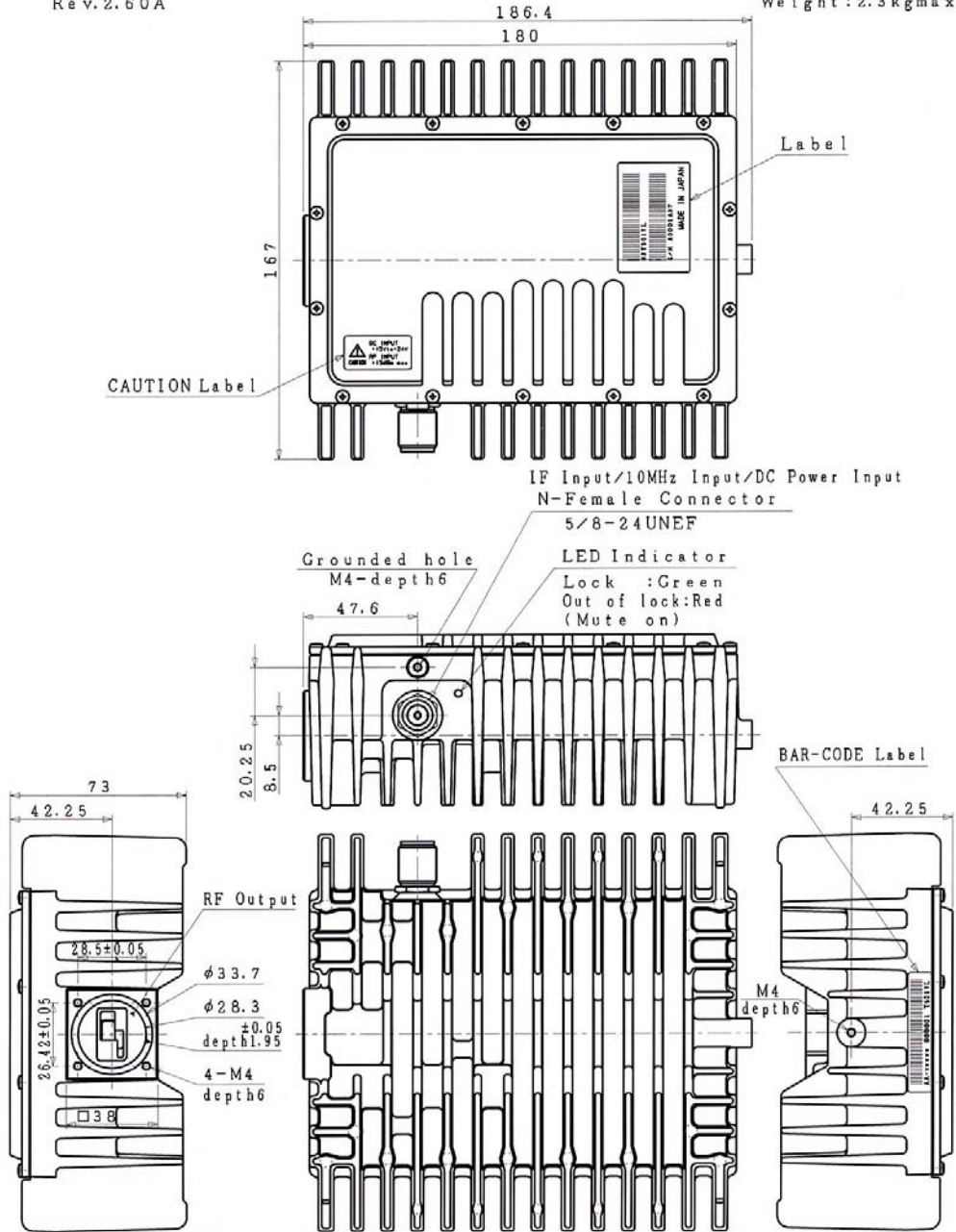
## < Specifications >

| Item                                 | Specifications  |
|--------------------------------------|---|
| Output Interface                     | Waveguide, WR-75  |
| Output Power @ 1dB G.C.P.            | +36 dBm minimum over temperature  |
| Linear Gain                          | 56 dB min.  |
| Requirement for External Reference   | [Frequency] 10 MHz (sine-wave)<br>[Input Power] -5 to +5 dBm @ Input port<br>[Phase Noise] -125 dBc/Hz max. @ 100 Hz<br>-135 dBc/Hz max. @ 1 kHz<br>-140 dBc/Hz max. @ 10 kHz |
| L.O. Phase Noise                     | -60 dBc/Hz max. @ 100 Hz<br>-70 dBc/Hz max. @ 1 kHz<br>-80 dBc/Hz max. @ 10 kHz<br>-90 dBc/Hz max. @ 100 kHz  |
| Input V.S.W.R.                       | 2 : 1 max   |
| Output V.S.W.R.                      | 2 : 1 max.  |
| DC Power Requirement                 | +15 to +24 VDC 50 W max.  |
| Mute                                 | Shut off the HPA in case of L.O. unlocked   |
| Input Interface                      | N-type, female (50 ohms) [Model No. NJT5017/17L]<br>F-type, female (75 ohms) [Model No. NJT5017F/17FL]  |
| Temperature Range (ambient)          | -40 to +55 C (operating)<br>-40 to +75 C (storage)  |
| Dimension & Housing                  | 186.4mm (L) x 167mm (W) x 73 mm (H) max.<br>[7.33" (L) x 6.57" (W) x 2.87" (H)]   |
| Weight                               | 2.3 kg max. [5.1 lbs]   |
| LED Indicator (* only NJT5017L/17FL) | Green: LO locked<br>RED: LO unlocked (or no 10MHz reference signal)   |

<Outline Drawing>

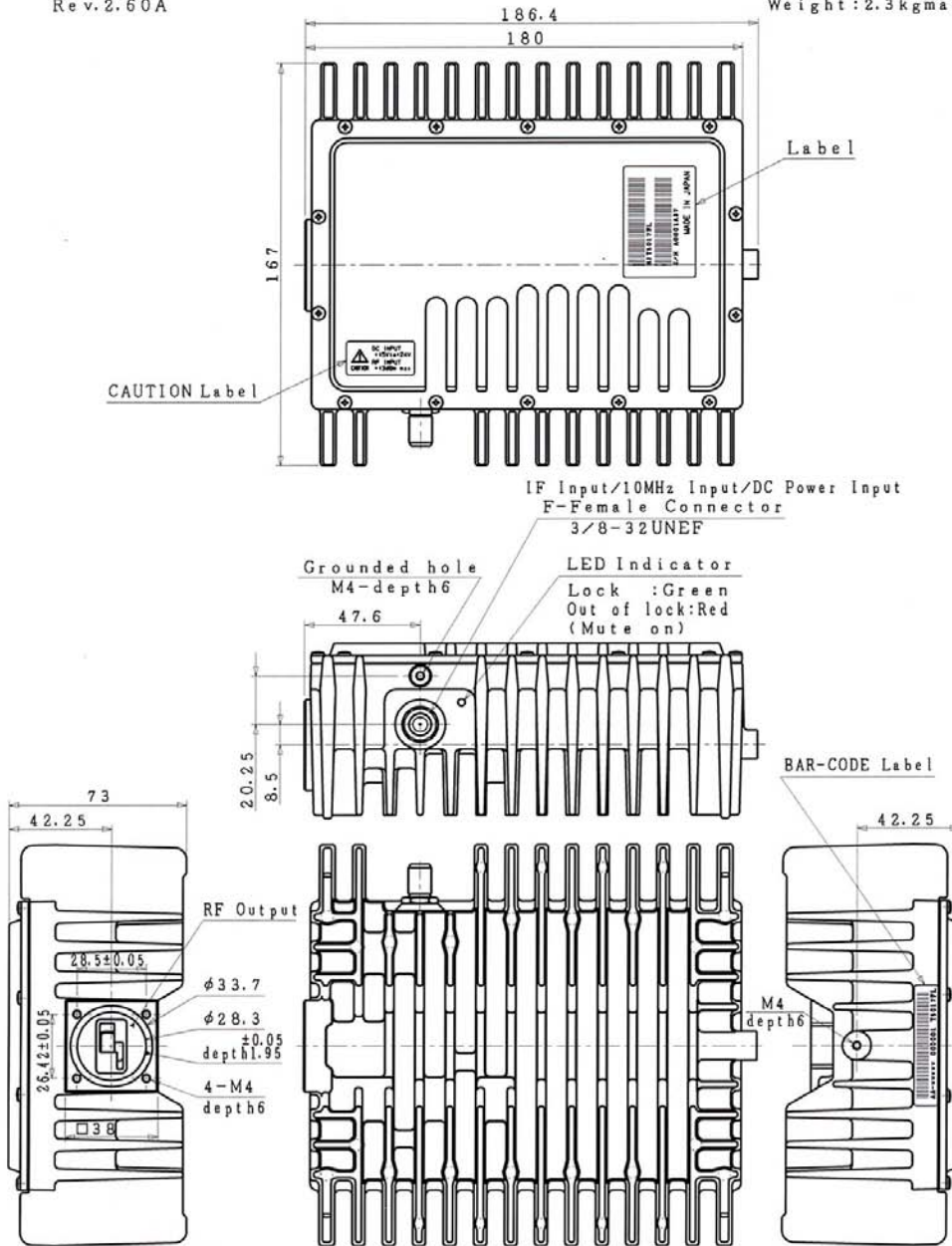
Model: NJT5017L  
 Ku Band 4W  
 Transmitter  
 (Die Casting Housing)  
 Rev.2.60A

Unit : mm  
 Tolerance : ±0.5  
 Weight : 2.3kg max



Model: NJT5017FL  
 Ku Band 4W  
 Transmitter  
 (Die Casting Housing)  
 Rev.2.60A

Unit : mm  
 Tolerance:±0.5  
 Weight:2.3kgmax



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