



Ku-band 2W BUC [Block Upconverter]

MODEL NO. NJT5016 / 16F

<Description>

This unit is the fixed gain transmitter incorporating a low phase noise Phase Locked Local Oscillator and a high reliable MMIC High Power Amplifier, and converts L Band (950 to 1,450 MHz) IF Input to Ku Band (14.0 to 14.5 GHz) RF Output.



<Line-Up>

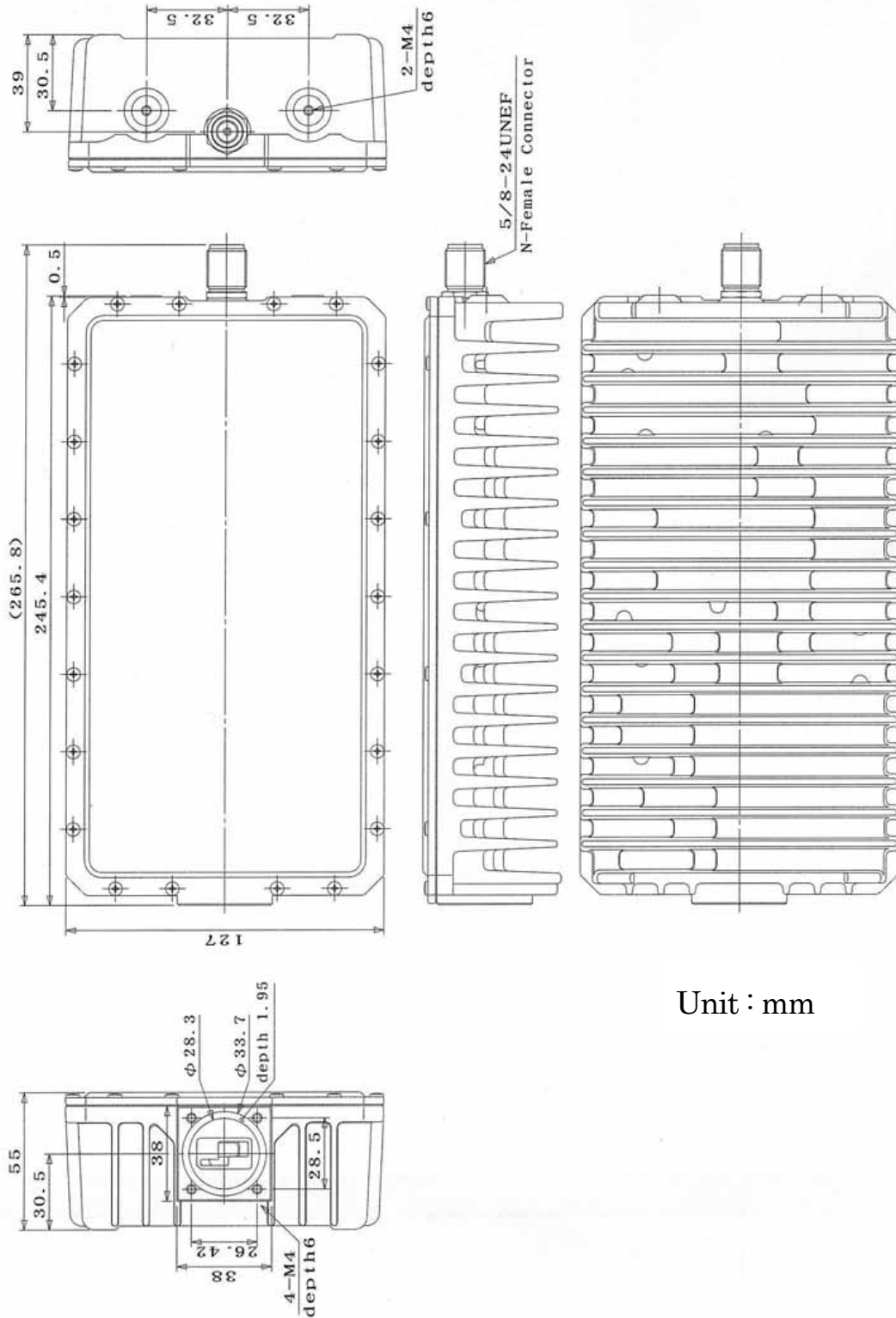
| Model No. | RF Frequency | Local Frequency | IF Frequency | Output Power | Connector |
|-----------|------------------|-----------------|------------------|-----------------------------|-----------|
| NJT5016 | 14.0 to 14.5 GHz | 13.05 GHz | 950 to 1,450 MHz | 2W Linear (+33 dBm min.) | N-Type |
| NJT5016F | | | | | F-Type |

<Specifications>

| Item | Specifications |
|------------------------------------|--|
| Output Interface | Waveguide, WR-75 |
| Output Power @ P1 dB | +33 dBm minimum over temperature |
| Conversion Gain | 53 dB nom. |
| 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) [Model No. NJT5016] F-type, female (75 ohm) [Model No. NJT5016F] |
| 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 +24 V dc |
| Power Consumption | 37.5 W max. |
| Operating Temperature | -40 to +55 degrees C |
| Storage Temperature | -40 to +75 degrees C |
| Size & Weight | 245.4 mm (L) x 127 mm (W) x 55 mm (H), 2.3 kg max. |

<Outline Drawing>

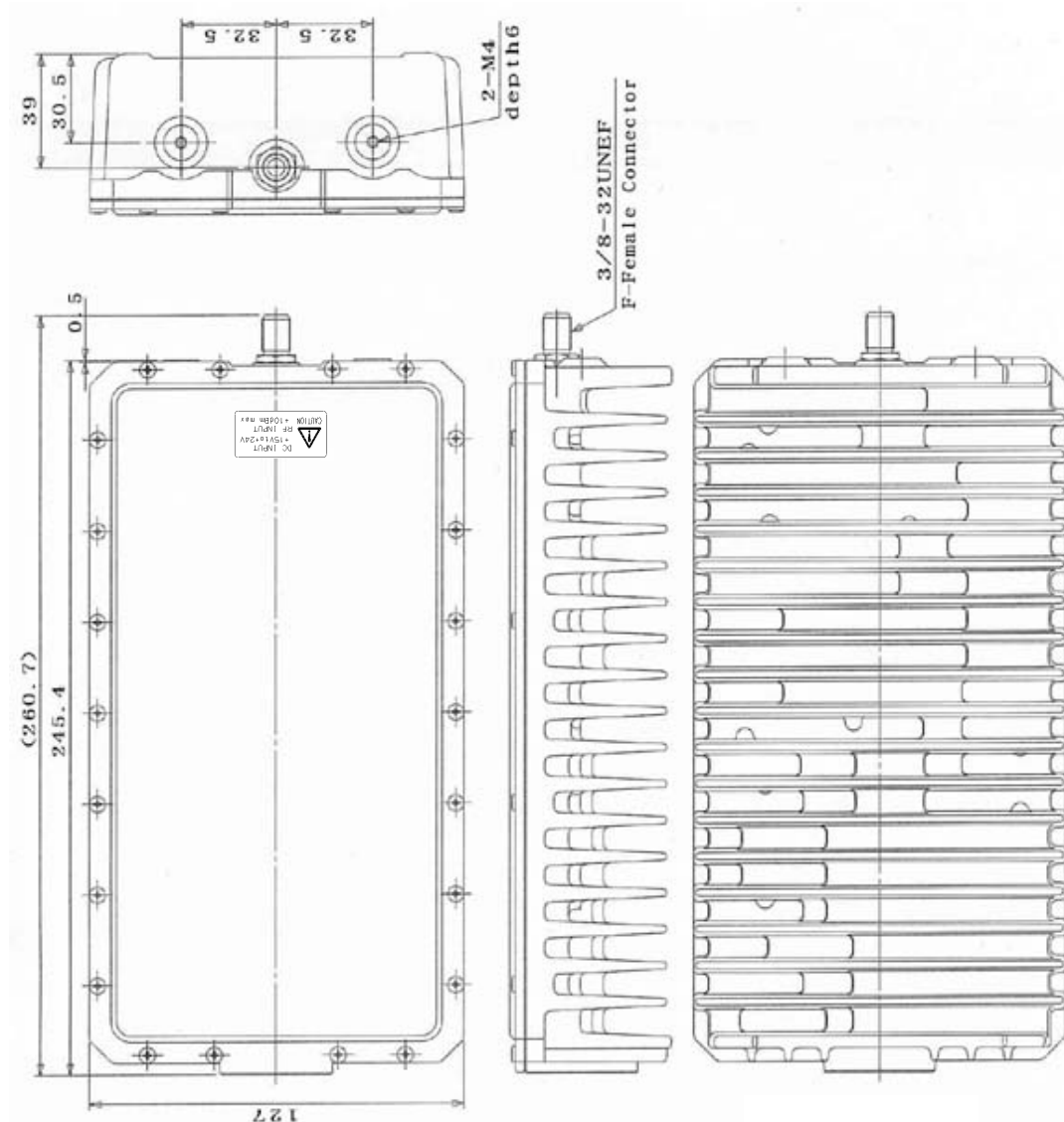
Type 1 (N-type Female Input Connector) : Model No. NJT5016



Unit : mm



Type 2 (F-type Female Input Connector) : Model No. NJT5016F



Unit : mm

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