

# Ku-band 6W BUC

## MODEL No. NJT5127 series

### < Features >

- \* **High Efficiency & Low Distortion**
  - P1dB: +37.8 dBm min. over temperature
  - Power Consumption: 63 W
  - ACPR: -26 dBc max. @ Pout = +37.8 dBm
- \* **Small Size & Light Weight**
  - Weight: 2.4 kg
- \* **LED Indicator (only NJT5127L/27FL)**
- \* **RoHS Compliance**



### < Line-Up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	Power Supply	LED Indicator
NJT5127	14.0 to 14.5 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz	6W Linear (+37.8 dBm min.)	N-type	+24 VDC (+15 to +24 VDC)	-
NJT5127F					F-type		-
NJT5127L					N-type		Equipped
NJT5127FL					F-type		Equipped

### < Specifications >

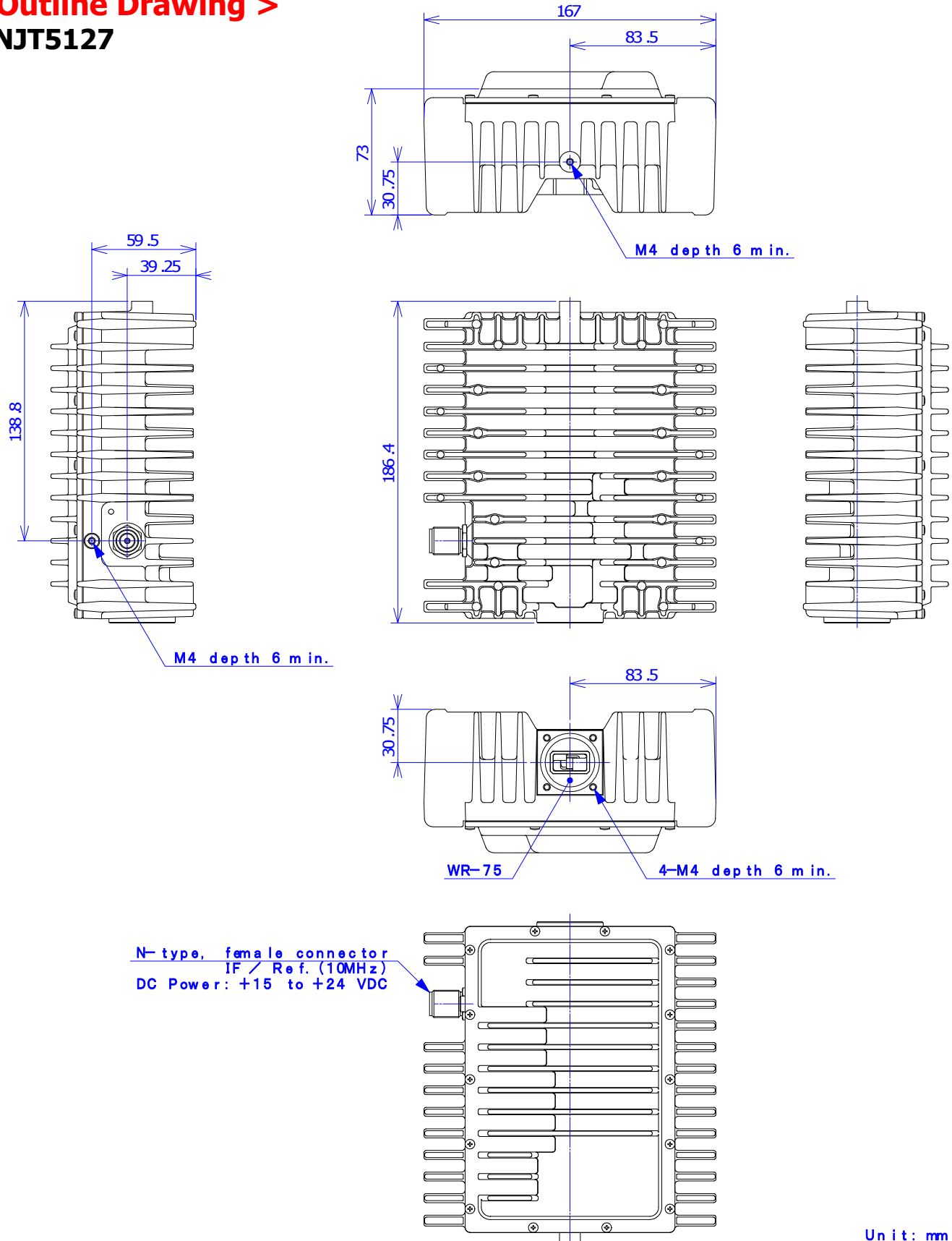
Item	Specifications
Output Interface	Waveguide, WR75 (with Groove)
Input Interface	N-type, female (50 ohm) [Model No.: NJT5127/27L] F-type, female (75 ohm) [Model No.: NJT5127F/27FL]
Output Power @ 1 dB G.C.P.	+37.8 dBm min. over temperature
Linear Gain	56 dB nom.
ACPR Compliance with IESS308 / SSOG	-26 dBc max. @ Pout = +37.8 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 -140 dBc/Hz max. @ 10 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	-156 dBm/Hz max. @10.95 to 12.75 GHz
Input V.S.W.R.	2.0 : 1 max.
Output V.S.W.R.	2.0 : 1 max.
Power Requirement	+24 VDC (+15 to +24 VDC)
Power Consumption	63 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 [Model No.: NJT5127L/27FL]
Temperature Range (ambient)	-40 to +55 C (operating), -40 to +75 C (storage)
Dimension & Housing ( without Interface Connectors )	186.4 mm (L) x 167 mm (W) x 83 mm (H) [7.33" (L) x 6.57" (W) x 3.27" (H)]
Weight	2.4 kg [5.3 lbs]

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< Outline Drawing >

**NJT5127**



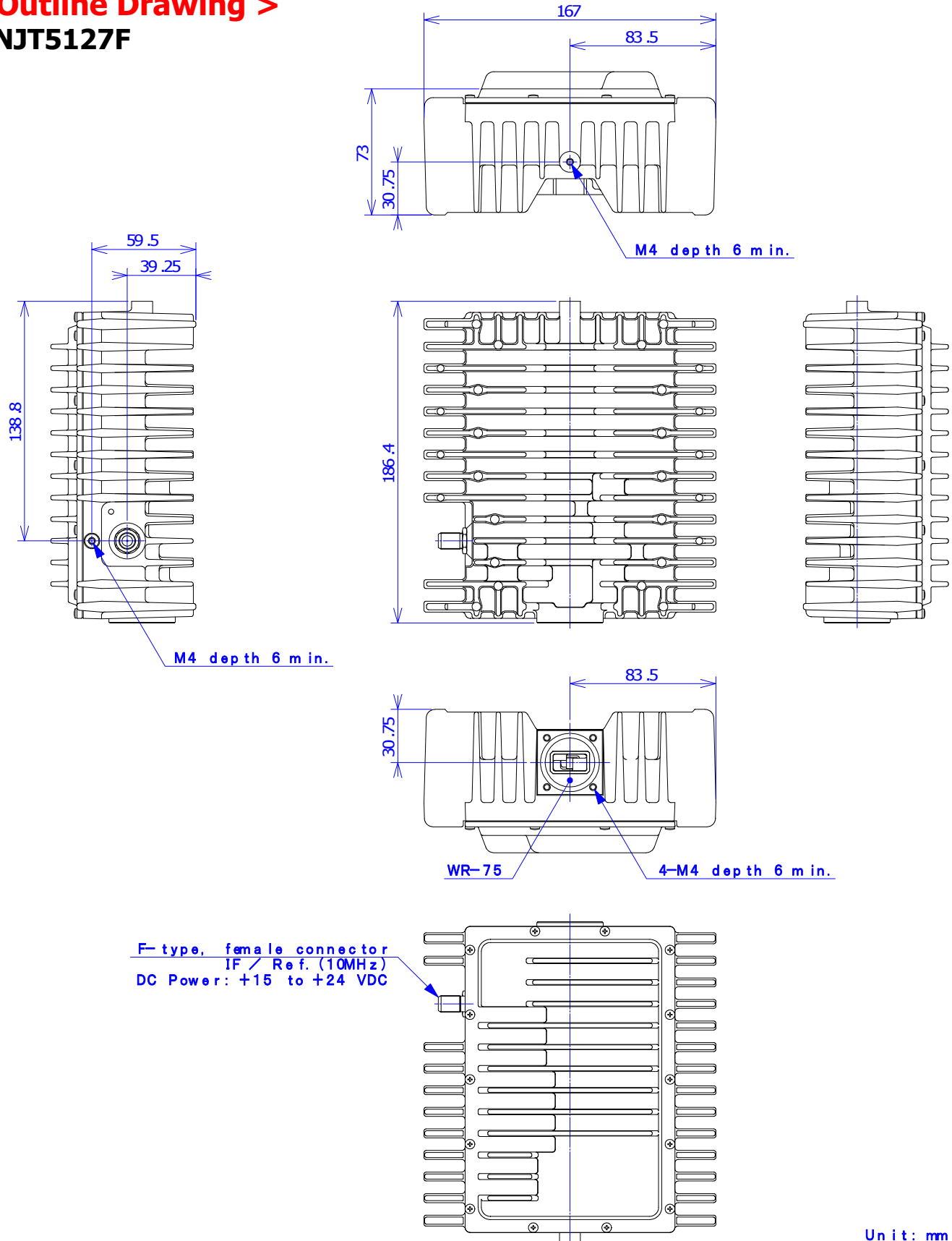
Unit: mm

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< Outline Drawing >

**NJT5127F**



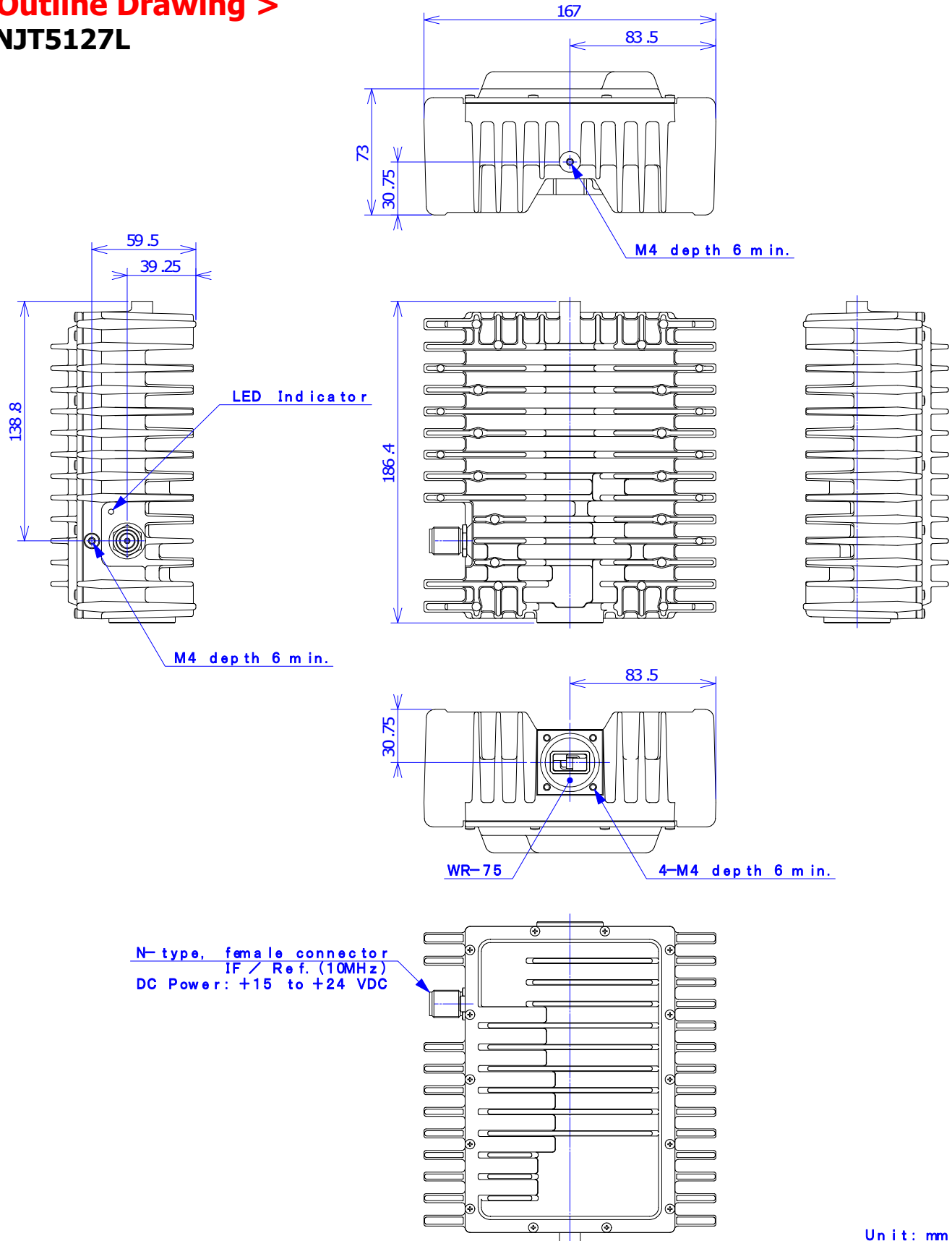
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< Outline Drawing >

**NJT5127L**

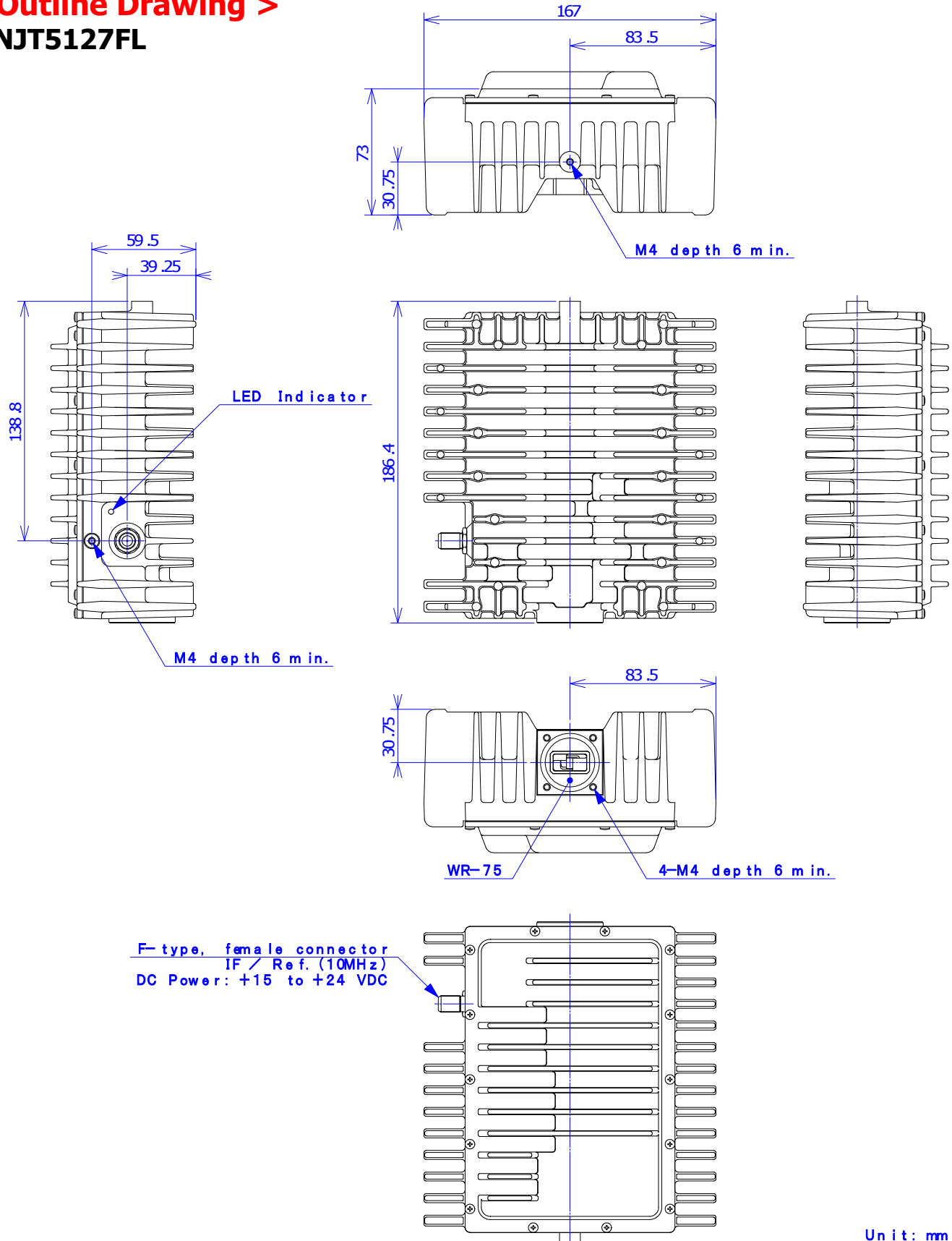


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**NJT5127FL**



Unit: mm