

Ku-band 4W BUC

MODEL No. NJT5017 series

< Features >

- * **High Efficiency & Low Distortion**
 - P1dB: +36 dBm min. over temperature
 - Power Consumption: 50 W
 - ACPR: 26 dBc min. @ Pout = +36 dBm
- * **Small Size & Light Weight**
 - Weight: 2.3 kg
- * **LED Indicator (only NJT5017L/17FL)**
- * **RoHS Compliance**



< Line-Up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	Power Supply	LED Indicator
NJT5017	14.0 to 14.5 GHz (Ku-band)	13.05 GHz	950 to 1,450 MHz	4W Linear (+36 dBm min.)	N-type	+24 VDC (+15 to +24 VDC)	-
NJT5017F					F-type		-
NJT5017L					N-type		Equipped
NJT5017FL					F-type		Equipped

< Specifications >

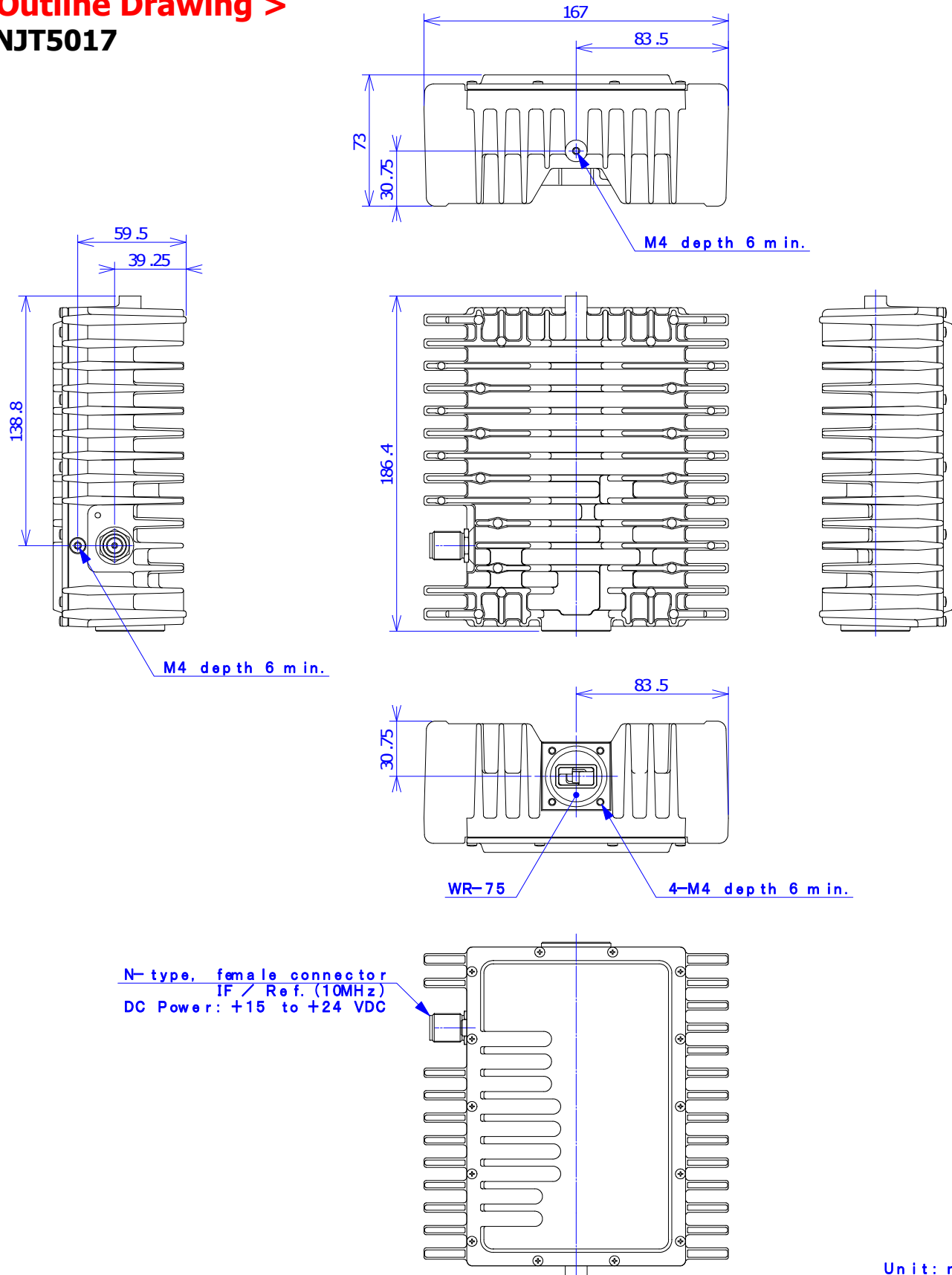
Item	Specifications
Output Interface	Waveguide, WR-75 (with Groove)
Input Interface	N-type, female (50 ohm) [Model No.: NJT5017/17L] F-type, female (75 ohm) [Model No.: NJT5017F/17FL]
Output Power @ 1 dB G.C.P.	+36 dBm min. over temperature
Linear Gain	56 dB nom.
ACPR Compliance with IESS308 / SSOG	26 dBc min. @ Pout = +36 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	50 W max.
Mute	Shut off the HPA in case of LO unlocked
LED Indicator	Green: LO locked / RED: LO unlocked (or no 10MHz reference signal) [Model No.: NJT5017L/17FL]
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 73 mm (H) [7.33" (L) x 6.57" (W) x 2.87" (H)]
Weight	2.3 kg max. [5.1 lbs max.]

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< Outline Drawing >

NJT5017



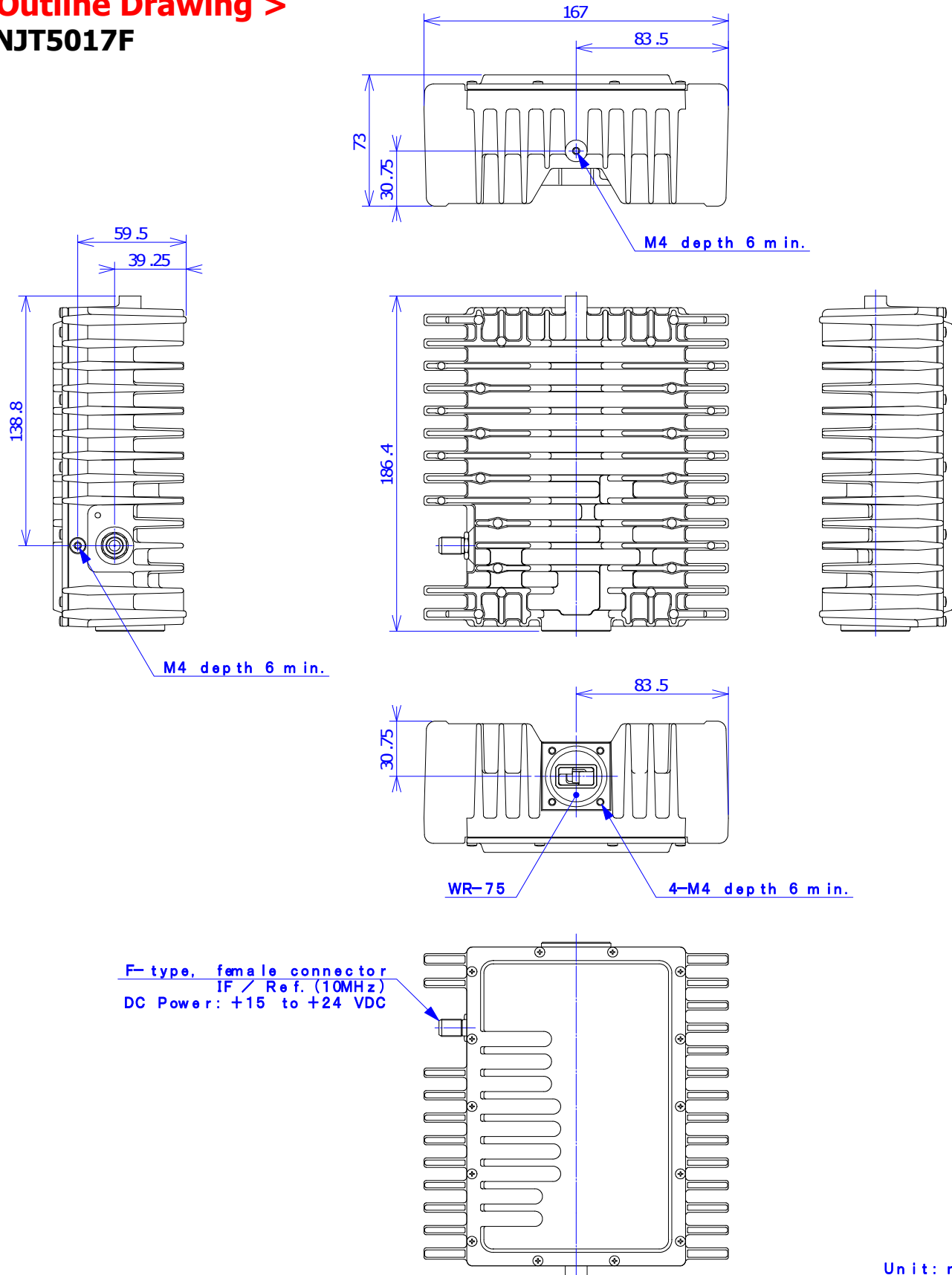
Unit: mm

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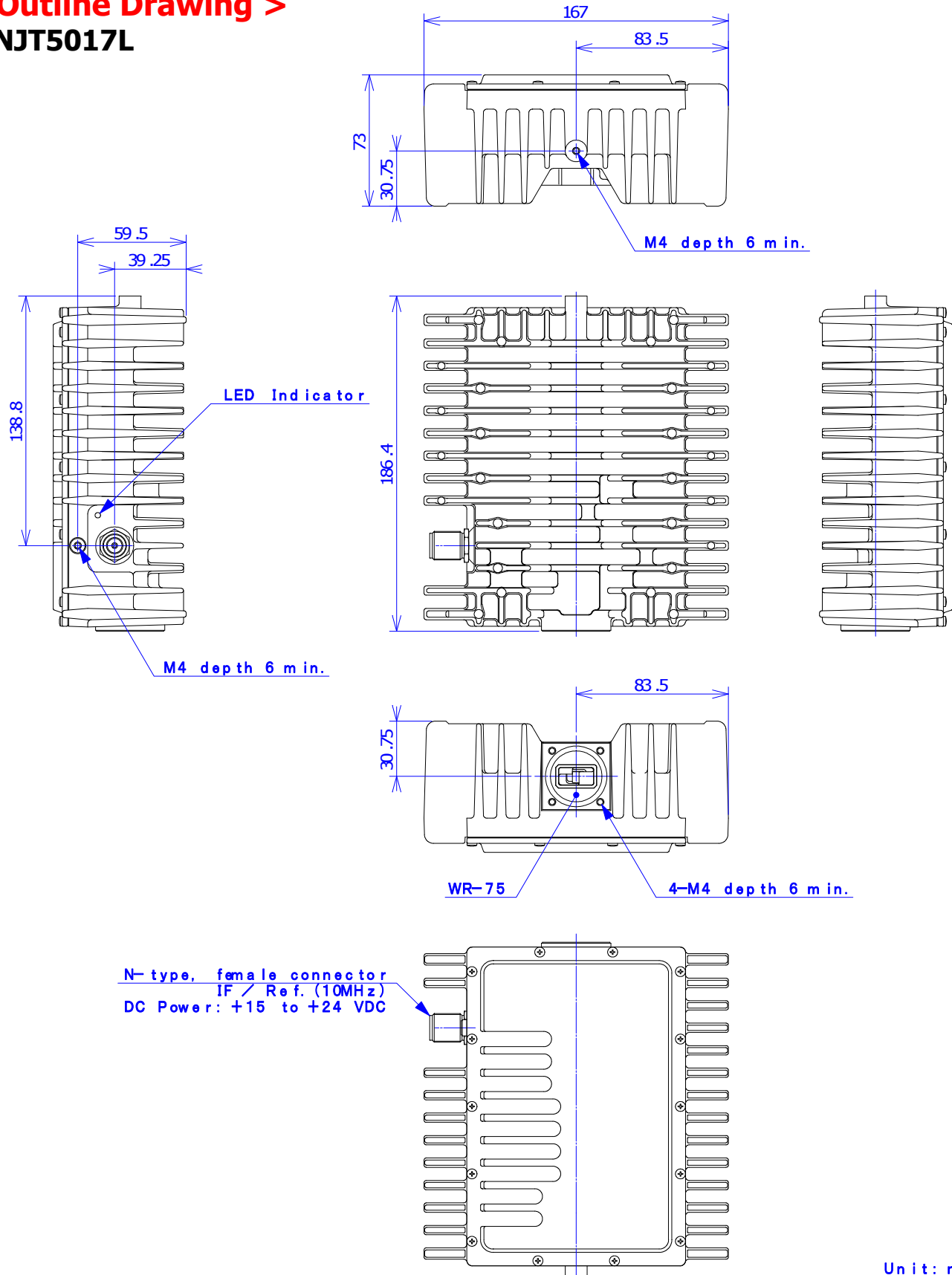
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NJT5017F



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NJT5017L



N-type, female connector
 IF / Ref. (10MHz)
 DC Power: +15 to +24 VDC

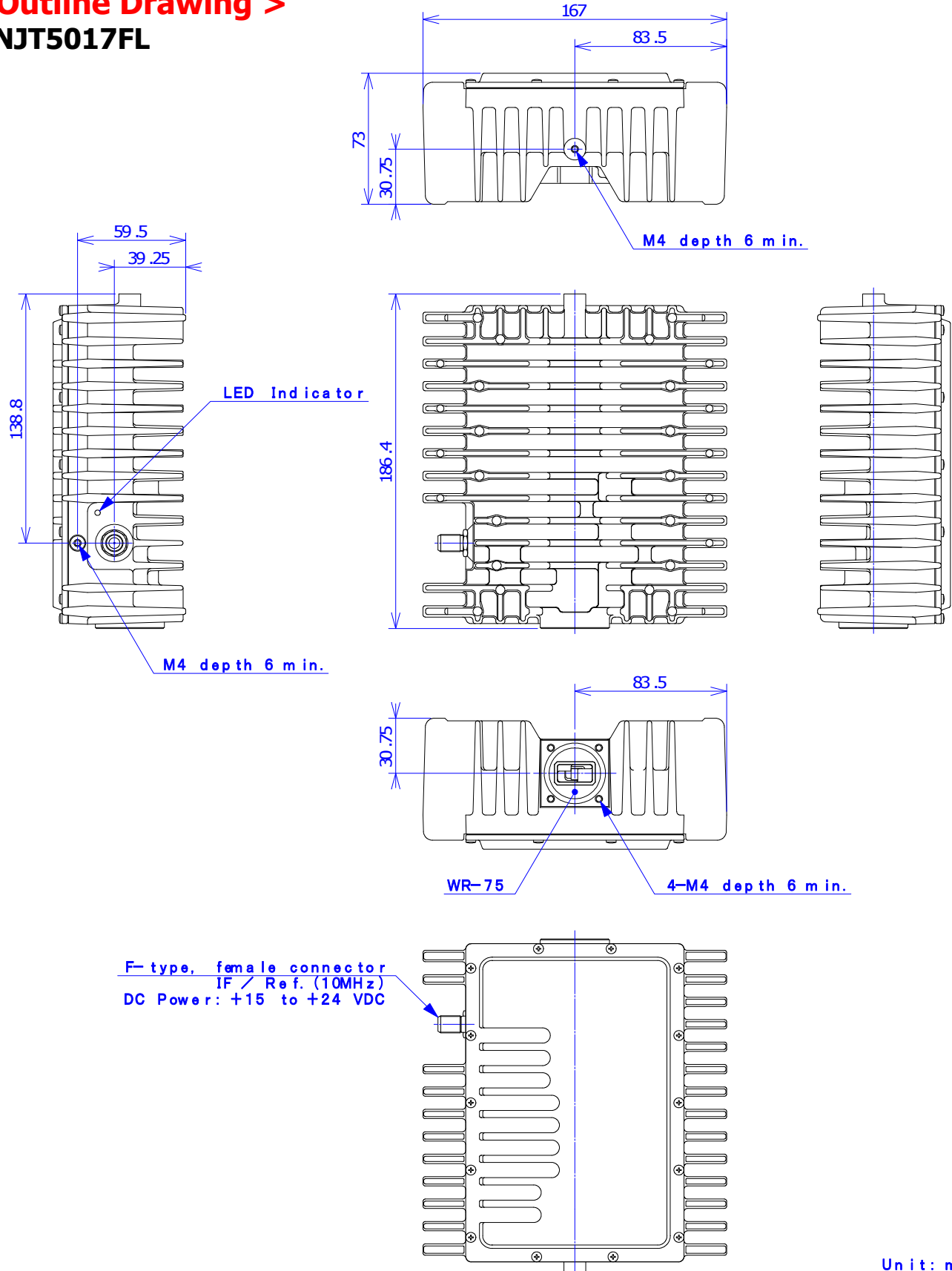
Unit: mm

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NJT5017FL



Unit: mm