■ Universal/Standard Ku-band GaN 25W BUC

MODEL No. NJT8370 series

New Products

< Features >

* GaN Technology Amplifier Inside
* High Temperature Operating
  - Operation Temperature Range: -40 to +75 ºC
* High Efficiency Output Power
  - Saturation Output Power: +44.0 dBm
  - ACPR: -30 dBc @ Pout = +42.0 dBm
  - Power Consumption: 190 W
* AC Power Operation Option
* Monitor & Control Option
  - FSK Communications M&C
  - RS-232C Interface Serial M&C
* Compact Size & Light Weight
  - Dimension: 180 (L) x 130 (W) x 80 (H) mm
  - Weight: 2.5 kg

< Line-Up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	IF Connector	Power Supply	Port for Power Input	M&C Option
NJT8370NMK	14.0 to 14.5 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz	25W Saturation (+44 dBm)	N-type	+36 to +60 V DC Power	MS Connector	FSK M&C
NJT8370FMK					F-type			
NJT8370NMR					N-type			RS-232C M&C
NJT8370FMR					F-type			
NJT8370UNMK	13.75 to 14.5 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz		N-type			FSK M&C
NJT8370UFMK					F-type			
NJT8370UNMR					N-type			RS-232C M&C
NJT8370UFMR					F-type			

< Specifications >

Item	Specifications
Saturation Output Power	+44 dBm min. @ +25 °C / +43 dBm min. over temperature
Linear Gain	70 dB nom., 64 dB min.
Gain Variation over frequency Standard Ku-band: Universal Ku-band:	 5 dBp-p max. over 500 MHz / 2 dBp-p max. over 54 MHz 5 dBp-p max. over 750 MHz / 2 dBp-p max. over 54 MHz
Gain Stability over temperature	2 dBp-p typ., 4 dBp-p max.
ACPR	-30 dBc typ., -28 dBc min. @ Pout = +42 dBm
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 -100 dBc/Hz max. @ 1 MHz
Input V.S.W.R. / Output V.S.W.R.	2 : 1 max. / 2 : 1 max.
DC Power Requirement (1) Voltage Range (2) Power Consumption @No IF Signal @ Pout=+42dBm @ Psat	 +36 to +60 VDC 120 W typ. 160 W typ. 190 W typ., 210 W max.
Mute	Shut off the HPA in case of L.O. unlocked or no 10 MHz reference signal
M&C	Interface: FSK Communications Signal / RS-232C Function: Power Monitor / TX On/Off Control / Alarm / Digital Step Attenuator … etc
Temperature Range (ambient) Operating: Storage:	-40 to +75 °C (Operation Guarantee) / -40 to +60 °C (Performance Guarantee) -40 to +75 °C
Dimension & Housing	180 (L) x 130 (W) x 80 (H) mm without interface connectors and screws
Weight	2.5 kg [5.5 lbs]

*Note: The contents of this sheet are subject to change without notice.

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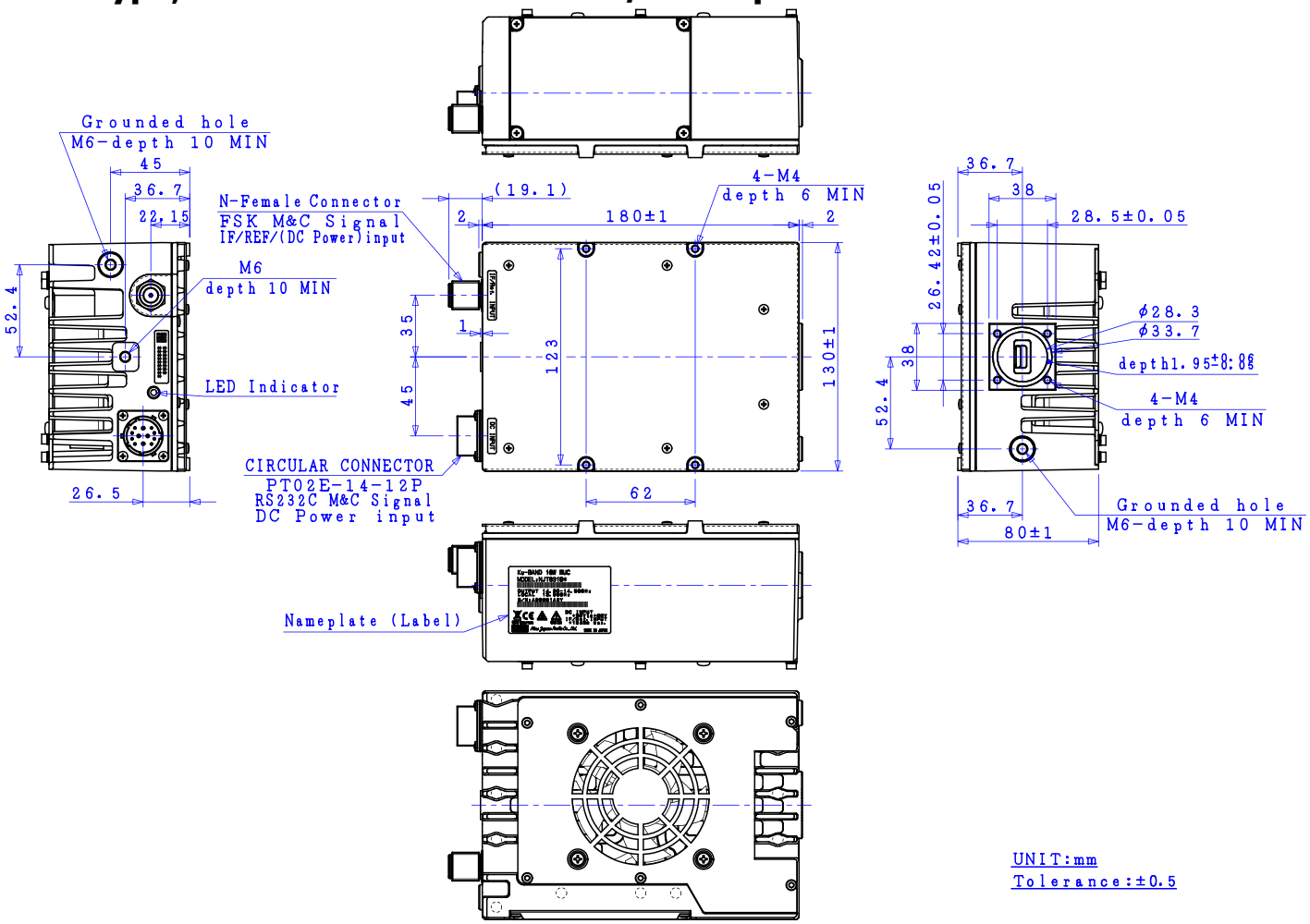
■ Universal/Standard Ku-band *GaN* 25W BUC

MODEL No. **NJT8370** series

New Products

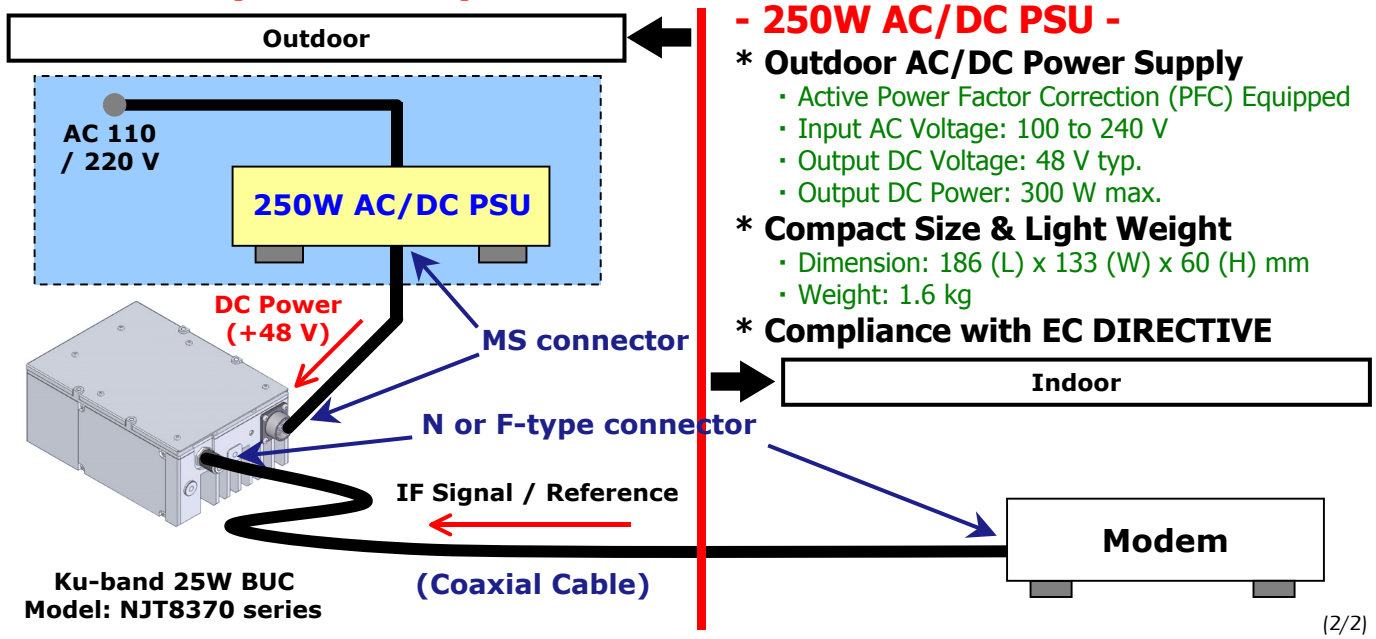
< Drawing >

N-type, female Connector Model / DC Input: MS Connector



UNIT:mm
Tolerance:±0.5

< AC Power Operation Option >



- 250W AC/DC PSU -

*** Outdoor AC/DC Power Supply**

- Active Power Factor Correction (PFC) Equipped
- Input AC Voltage: 100 to 240 V
- Output DC Voltage: 48 V typ.
- Output DC Power: 300 W max.

*** Compact Size & Light Weight**

- Dimension: 186 (L) x 133 (W) x 60 (H) mm
- Weight: 1.6 kg

*** Compliance with EC DIRECTIVE**

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