



VSAT

Products

Line-up

2019

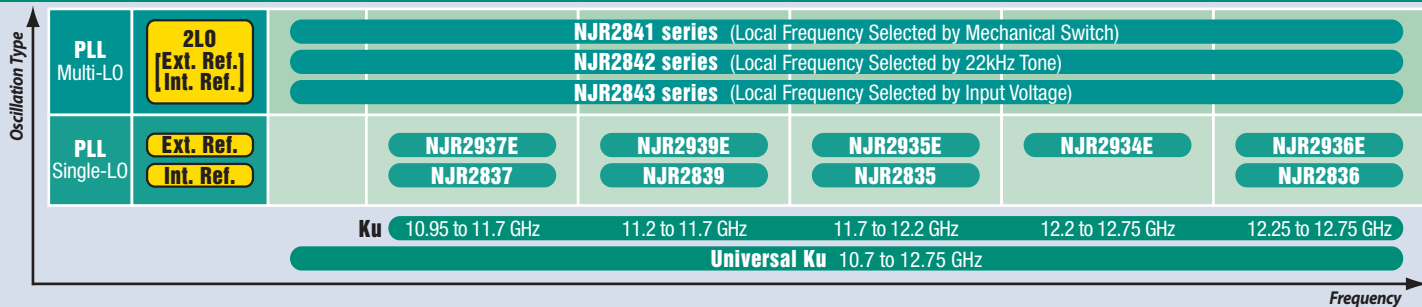


New Japan Radio Co., Ltd.

Ku-band BUC



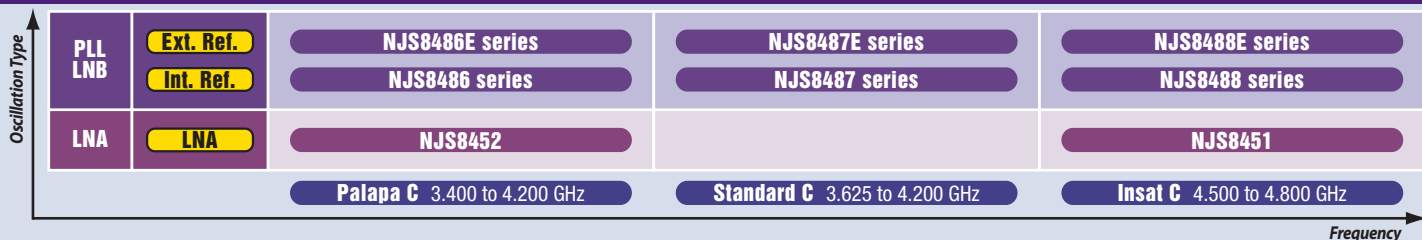
Ku-band LNB



C-band BUC



C-band LNA/LNB



03b Networks Ka-band 10W/5W BUCs & K-band PLL LNBs



10W / 5W BUC

10W / 5W BUC : NJT5836 & NJT5835 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	IF Connector
NJT5836L	27.652 to 28.388 GHz	26.600 GHz	1,052 to 1,788 MHz	+40 dBm Saturation (10W)	N-type
NJT5836H	28.172 to 29.071 GHz	27.200 GHz	972 to 1,871 MHz		
NJT5835L	27.652 to 28.388 GHz	26.600 GHz	1,052 to 1,788 MHz	+37 dBm Saturation (5W)	
NJT5835H	28.172 to 29.071 GHz	27.200 GHz	972 to 1,871 MHz		

High Efficiency Output Power

(10W Model)
 Saturation Output Power: **+40 dBm (10W)**
 Power Consumption: **170 W max.**
 (5W Model)
 Saturation Output Power: **+37 dBm (5W)**
 Power Consumption: **88 W max.**

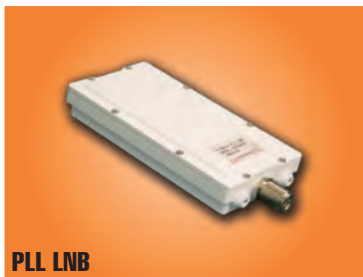
Ethernet M&C Function Equipped

Gain Control: **15 dB range, 1 dB step**
 Power Monitor: **12 dBm dynamic range**

Reliable All-weather Performance

Small Size & Light Weight

Weight: **4.5 kg**
 Dimension: **160 x 149.6 x 90 mm**



PLL LNB

PLL LNB : NJR2828 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-20 to +50 °C]	IF Connector
NJR2828L	17.852 to 18.588 GHz	16.800 GHz	1,052 to 1,788 MHz	+/- 1.5 ppm (+/- 25 kHz typ.)	N-type
NJR2828H	18.372 to 19.300 GHz	17.400 GHz	972 to 1,900 MHz		

Low Noise Temperature

Noise Temperature: **101 K typ., 120 K max.**

High LO Stability

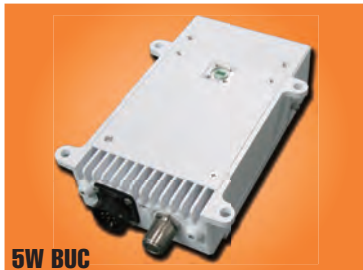
Local Stability: **+/- 1.5 ppm**

Reliable All-weather Performance

Small Size & Light Weight

Weight: **500 g**
 Dimension: **150 x 80 x 30 mm**

Global Xpress® Ka-band 5W BUC & K-band PLL LNB



5W BUC

5W BUC : NJT5830

Global Xpress® Compliance

RF Frequency: **29.0 to 30.0 GHz**
 Local Frequency: **28.05 GHz**
 IF Frequency: **950 to 1,950 MHz**

High Efficiency Output Power

Output Power: **+37 dBm (5W Linear)**
 ACPR: **-20 dBc max. @ MOP**
 Power Consumption: **88 W max.**

High Temperature Operating

Temperature Range: **-40 to +73 °C**

Reliable All-weather Performance

Small Size & Light Weight

Weight: **1.6 kg**
 Dimension: **180 x 100 x 50 mm**



PLL LNB

PLL LNB : NJR2825

Global Xpress® Compliance

RF Frequency: **19.2 to 20.2 GHz**
 Local Frequency: **18.25 GHz**
 IF Frequency: **950 to 1,950 MHz**

High Local Stability

Local Stability: **+/- 3.0 ppm**

Low Noise Figure

Noise Figure: **1.3 dB**

High Temperature Operating

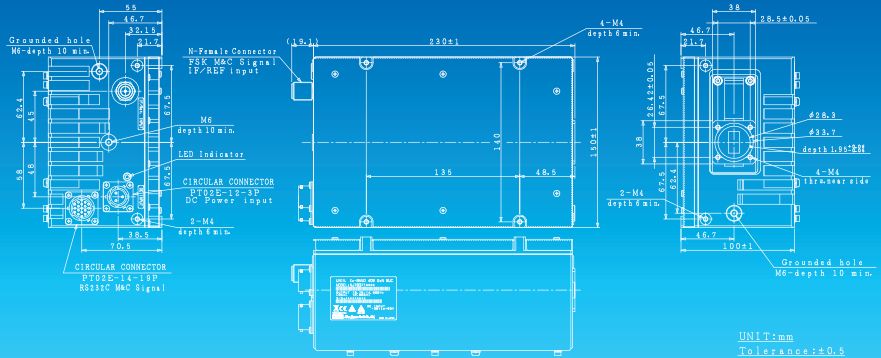
Temperature Range: **-40 to +73 °C**

Reliable All-weather Performance

Small Size & Light Weight

Weight: **400 g**
 Dimension: **85 x 68 x 34 mm**

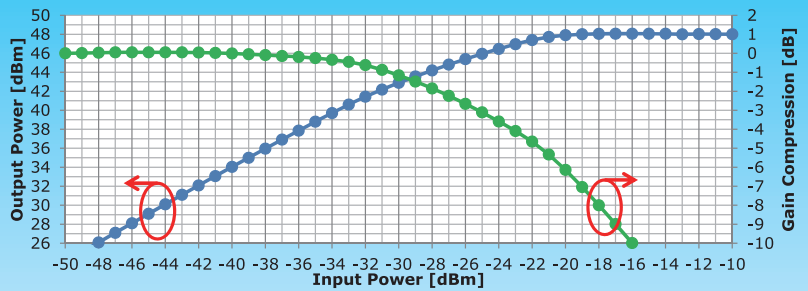
Ku-band GaN 40W ROBUST-BUC: NJT8371 series



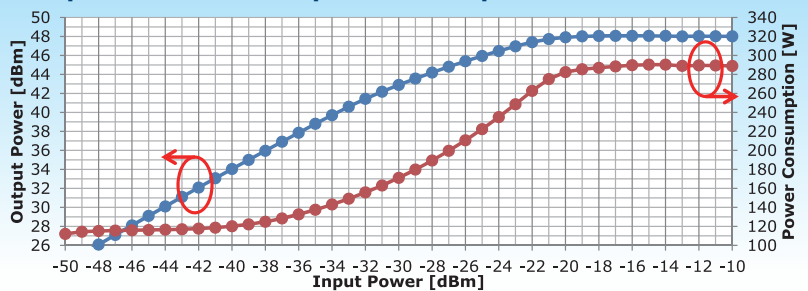
- **GaN Technology Amplifier Inside**
- **High Efficiency Output Power**
Saturation Output Power: +46.0 dBm
ACPR: -30 dBc @ Pout ≤ +44 dBm
Power Consumption: 260 W
- **Monitor & Control Functions**
TX Output Power Monitor
Step Attenuator (15.5dB)
Alarm / TX On/Off Control
- **FSK Communications M&C Option**
- **RS-232C Interface M&C Option**
- **AC Power Operation Option** *Note
- **Compact Size & Light Weight**
Dimension: 230 x 150 x 100 mm
Weight: 4.2 kg
- **LED Indicator Equipped**

*Note: The detail is shown in section of "OUTDOOR 500W AC/DC PSU".

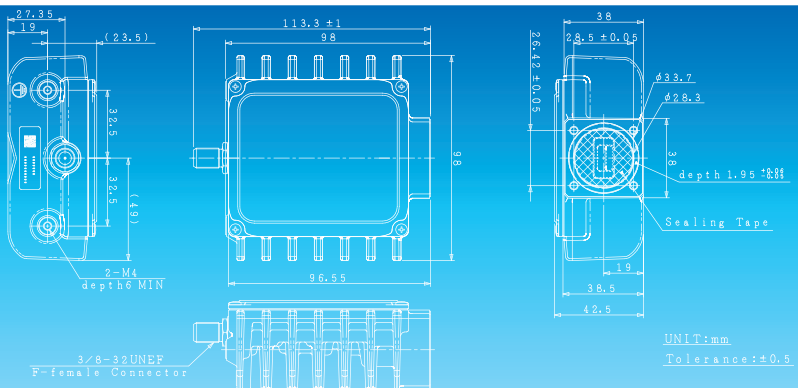
➤ Output Power/Gain Compression vs. Input Power



➤ Output Power/Gain Compression vs. Input Power

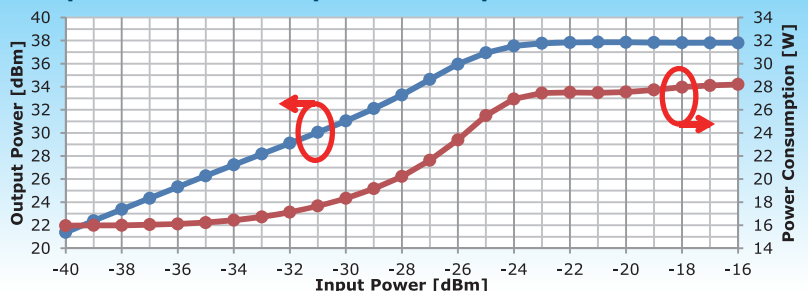


Ku-band 4W COMPACT-BUC: NJT8304 series

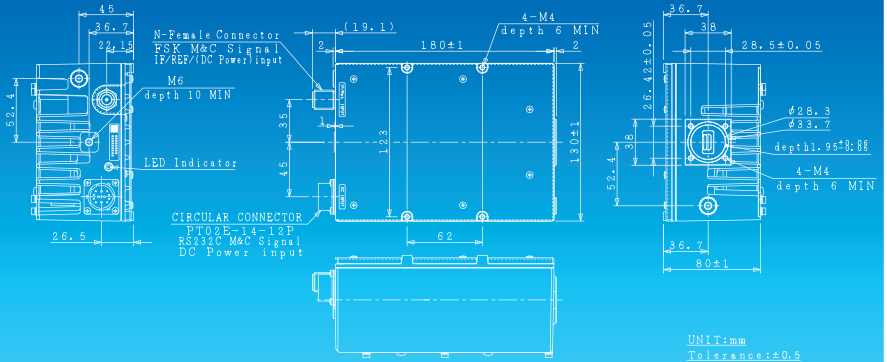


- **Leading Technology Equipped**
- **Super High Efficiency & Low Distortion**
P1dB: +36.0 dBm min. over Temperature
ACPR: -26 dBc @ Pout ≤ +35.5 dBm
Power Consumption: 28 W
- **Smaller Size & Lighter Weight**
Dimension: 98 x 98 x 42.5 mm
Weight: 500 g

➤ Output Power/Gain Compression vs. Input Power



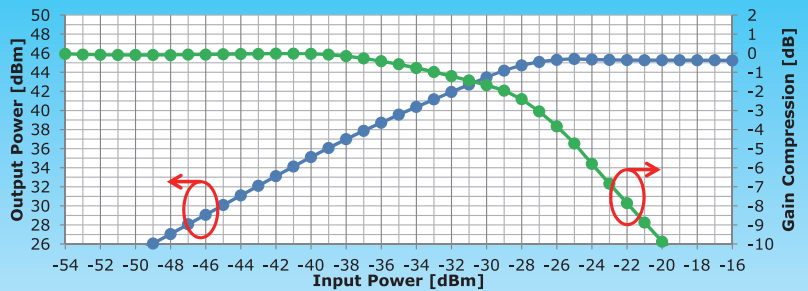
Ku-band GaN 25W MINI-BUC: NJT8370 series



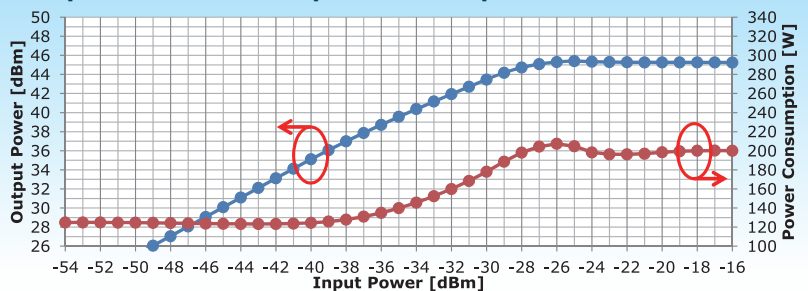
- **GaN Technology Amplifier Inside**
- **High Temperature Operating**
Operation Temperature Range: **-40 to +75 °C**
- **High Efficiency Output Power**
Saturation Output Power: **+44.0 dBm**
ACPR: **-30 dBc @ Pout ≤ +42 dBm**
Power Consumption: **200 W**
- **Monitor & Control Functions**
TX Output Power Monitor
Step Attenuator (15.5dB)
Alarm / TX On/Off Control
- **FSK Communications M&C Option**
- **RS-232C Interface M&C Option**
- **AC Power Operation Option** *Note
- **Compact Size & Light Weight**
Dimension: **180 x 130 x 80 mm**
Weight: **2.5 kg**
- **LED Indicator Equipped**

*Note: The detail is shown in section of "OUTDOOR 250W AC/DC PSU".

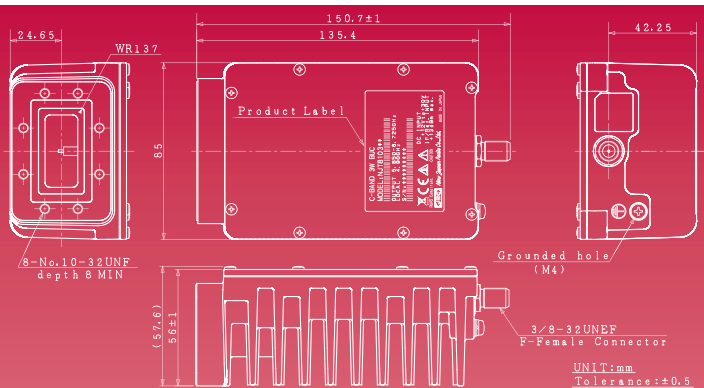
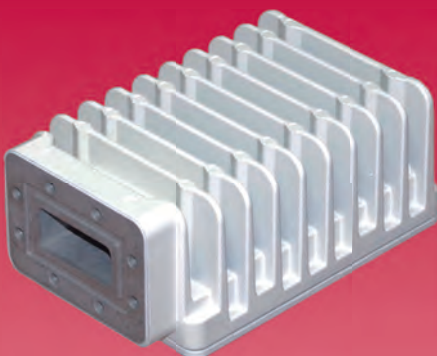
➤ Output Power/Gain Compression vs. Input Power



➤ Output Power/Gain Compression vs. Input Power



C-band 2W & 3W COMPACT-BUC: NJT8102 & NJT8103 series



- **Covering Full C-band Frequency**
Full C-band: 5.85 to 6.725 GHz
Standard C-band: 5.85 to 6.425 GHz
- **Smaller Size & Lighter Weight**
Dimension: **135.4 x 85 x 56 mm**
Weight: **800 g**

➤ High Efficiency Output Power

< 3W Model: NJT8102 series >

- P1dB: **+34.5 dBm min. over Temperature**
- ACPR: **-26 dBc @ Pout ≤ +34.5 dBm**
- Power Consumption: **21 W**

< 2W Model: NJT8103 series >

- P1dB: **+33.0 dBm min. over Temperature**
- ACPR: **-26 dBc @ Pout ≤ +33.0 dBm**
- Power Consumption: **18 W**

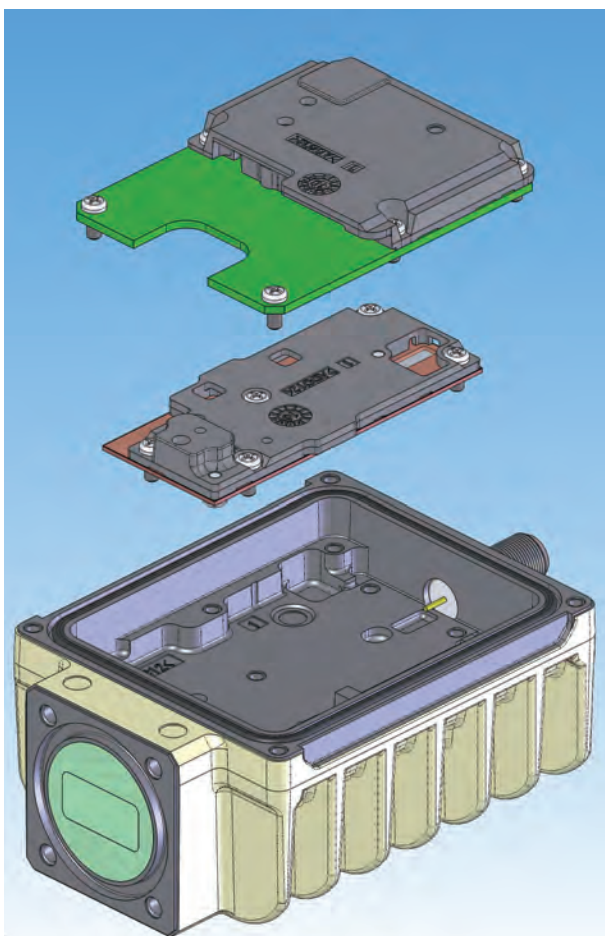
Ku-band Bare-Die-Module BUC

Feature

Miniaturization and stable characteristics by the following advantage technologies

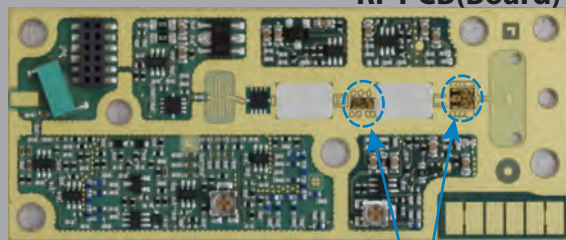
Advantage

- Wide band and good repeatability by **RF-PA Bare-Die assembly technology**
- Excellent thermal management by **Copper base PCB and Laser Cavity technology**
- Excellent spurious suppression by **Sub-harmonic mixer technology** and **Alumina filter technology**
- Stacked structure



Bare-Die-Module

RF PCB(Board)



RF-PA Bare-Die assembly



GaN 40W BUC



GaN 25W BUC



16W/8W BUC



6W BUC



4W BUC



3W/1.5W BUC

■ GaN 40W ROBUST-BUC : NJT8371

- **High Efficiency Output Power**
Saturation Output Power: +46.0 dBm
ACPR: -30 dBc @ Pout = +44 dBm
Power Consumption: 260 W
- **Compact Size & Light Weight**
Dimension: 230 x 150 x 100 mm
Weight: 4.2 kg

■ GaN 25W MINI-BUC : NJT8370

- **High Temperature Operating**
Operation Temp. Range: -40 to +75 °C
- **High Efficiency Output Power**
Saturation Output Power: +44.0 dBm
ACPR: -30 dBc @ Pout = +42 dBm
Power Consumption: 200 W
- **Miniature Size & Light Weight**
Weight: 2.5 kg

■ 16W MINI-BUC : NJT8319

8W MINI-BUC : NJT8318

- **High Temperature Operating**
Operation Temp. Range: -40 to +75 °C
- **High Efficiency & Low Distortion <16W Model>**
P1dB: +42.0 dBm over Temp.
ACPR: -28 dBc @ Pout = +41 dBm
Power Consumption: 160 W
- **<8W Model>**
P1dB: +39.0 dBm over Temp.
ACPR: -28 dBc @ Pout = +38 dBm
Power Consumption: 80 W
- **Miniature Size & Light Weight**
Weight: 2.4 kg

■ 6W SLIM-SIZE BUC : NJT8306

- **High Temperature Operating**
Operation Temp. Range: -40 to +65 °C
- **High Efficiency & Low Distortion**
P1dB: +37.8 dBm over Temp.
ACPR: -26 dBc @ Pout = +37.8 dBm
Power Consumption: 45 W
- **Compact Size & Light Weight**
Weight: 1.2 kg

■ 4W COMPACT-BUC : NJT8304

- **Super High Efficiency & Low Distortion**
P1dB: +36 dBm over Temp.
ACPR: -26 dBc @ Pout = +35.5 dBm
Power Consumption: 28 W
- **Compact Size & Light Weight**
Weight: 500 g

■ 3W BUC : NJT8302 / 1.5W BUC : NJT8301

- **Super High Efficiency & Low Distortion <3W Model>**
P1dB: +34 dBm over Temp.
Power Consumption: 18 W
- **<1.5W Model>**
P1dB: +31 dBm over Temp.
Power Consumption: 12 W
- **Smallest Size & Lightest Weight**
Weight: 350 g

GaN 40W ROBUST-BUC : NJT8371 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ Saturation	IF Connector	M&C Function	AC Power Option	Power Supply	LED Indicator				
NJT8371UNMK	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+46 dBm (40W)	N-type	FSK Communications	NA	DC Power	Equipped				
NJT8371UFMK					F-type					M&C *Note1	Enclosed *Note3	Input Port: MS Connector	
NJT8371UNMKA					N-type	RS-232C Interface	NA	DC Power					
NJT8371UFMKA					F-type					M&C *Note2	Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU	
NJT8371UNMR					N-type	FSK Communications	NA	DC Power					
NJT8371UFMR					F-type					M&C *Note1	Enclosed *Note3	Input Port: MS Connector	
NJT8371UNMRA					N-type	RS-232C Interface	NA	DC Power					
NJT8371UFMRA					F-type					M&C *Note2	Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU	
NJT8371NMK					14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz						N-type
NJT8371FMK										F-type	M&C *Note1	Enclosed *Note3	Input Port: MS Connector
NJT8371NMKA	N-type	RS-232C Interface	NA	DC Power									
NJT8371FMKA	F-type								M&C *Note2	Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU		
NJT8371NMR	N-type	FSK Communications	NA	DC Power									
NJT8371FMR	F-type								M&C *Note1	Enclosed *Note3	Input Port: MS Connector		
NJT8371NMRA	N-type	RS-232C Interface	NA	DC Power									
NJT8371FMRA	F-type								M&C *Note2	Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU		

*Note1: The detail is shown in section of "FSK COMMUNICATIONS M&C".

*Note2: The detail is shown in section of "RS-232C INTERFACE M&C".

*Note3: The detail is shown in section of "OUTDOOR 500W AC/DC PSU".



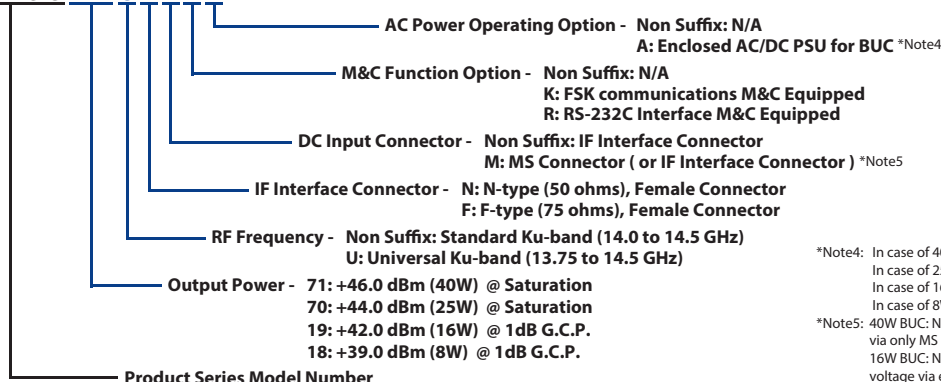
Standard Ku 40W: NJT8371 series
Universal Ku 40W: NJT8371U series

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ Saturation	+46 dBm min. @ +25 °C / +45 dBm min. over temperature
Conversion Gain	72 dB nom., 66 dB min.
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	1.5 : 1 max. @ RF Frequency
Power Requirement	+36 to +60 VDC at BUC Input Port 90 to 264 VAC at Outdoor AC/DC PSU: (AC Power Option) NJT8371NMKA / 71FMKA / 71NMRA / 71FMRA / 71UNMKA / 71UFMKA / 71UNMRA / 71UFMRA
Power Consumption	220 W typ. @ Pout=+44dBm 260 W typ., 290 W max. @ Psat
Port for Voltage Input	MS Connector : NJT8371NMK / 71FMK / 71NMR / 71FMR / 71UNMK / 71UFMK / 71UNMR / 71UFMR MS Connector supplied by Outdoor AC/DC PSU : NJT8371NMKA / 71FMKA / 71NMRA / 71FMRA / 71UNMKA / 71UFMKA / 71UNMRA / 71UFMRA
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Cooling	Forced-air-cooling by FAN
Dimension (without Interface Connector)	(L) 230 × (W) 150 × (H) 100 mm [(L) 9.07" × (W) 5.91" × (H) 3.94"]
Weight	4.2 kg [9.7 lbs]

Model Numbering System

N J T 8 3 7 1 U N M K A



*Note4: In case of 40W BUC: NJT8371 series, the enclosed unit is Outdoor 500W AC/DC PSU. In case of 25W BUC: NJT8370 series, the enclosed unit is Outdoor 250W AC/DC PSU. In case of 16W BUC: NJT8319 series, the enclosed unit is Outdoor 250W AC/DC PSU. In case of 8W BUC: NJT8318 series, the enclosed unit is Indoor 150W AC/DC PSU.
*Note5: 40W BUC: NJT8371 series and 25W BUC: NJT8370 series can be applied DC voltage via only MS Connector. 16W BUC: NJT8319 series and 8W BUC: NJT8318 series are available to apply DC voltage via either MS Connector or IF Connector.

GaN 25W MINI-BUC : NJT8370 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ Saturation	IF Connector	M&C Function	AC Power Option	Power Supply	LED Indicator				
NJT8370UNMK	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+44 dBm (25W)	N-type	FSK	NA	DC Power	Equipped				
NJT8370UFMK					F-type					Communications	Input Port: MS Connector		
NJT8370UNMKA					N-type	M&C *Note1	Enclosed *Note6	DC Power					
NJT8370UFMKA					F-type					Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU		
NJT8370UNMR					N-type	RS-232C	NA	DC Power					
NJT8370UFMR					F-type					Interface	Input Port: MS Connector		
NJT8370UNMRA					N-type	M&C *Note2	Enclosed *Note6	DC Power					
NJT8370UFMRA					F-type					Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU		
NJT8370NMK					14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz					N-type	FSK
NJT8370FMK										F-type	Communications	Input Port: MS Connector	
NJT8370NMKA										N-type			M&C *Note1
NJT8370FMKA										F-type	Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU	
NJT8370NMNR										N-type			RS-232C
NJT8370FMNR										F-type	Interface	Input Port: MS Connector	
NJT8370NMRA	N-type	M&C *Note2	Enclosed *Note6	DC Power									
NJT8370FMRA	F-type								Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU			

*Note1: The detail is shown in section of "FSK COMMUNICATIONS M&C".

*Note2: The detail is shown in section of "RS-232C INTERFACE M&C".

*Note6: The detail is shown in section of "OUTDOOR 250W AC/DC PSU".



Standard Ku 25W: NJT8370 series
Universal Ku 25W: NJT8370U series

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ Saturation	+44 dBm min. @ +25 °C / +43 dBm min. over temperature
Conversion Gain	72 dB nom., 66 dB min.
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+36 to +60 VDC at BUC Input Port 90 to 264 VAC at Outdoor AC/DC PSU: (AC Power Option) NJT8370NMKA / 70FMKA / 70NMRA / 70FMRA / 70UNMKA / 70UFMKA / 70UNMRA / 70UFMRA
Power Consumption	180 W typ. @ Pout=+42dBm 200 W typ., 230 W max. @ Psat
Port for Voltage Input	MS Connector : NJT8370NMK / 70FMK / 70NMR / 70FMR / 70UNMK / 70UFMK / 70UNMR / 70UFMR MS Connector supplied by Outdoor AC/DC PSU : NJT8370NMKA / 70FMKA / 70NMRA / 70FMRA / 70UNMKA / 70UFMKA / 70UNMRA / 70UFMRA
Temperature Range (ambient)	Operating : (Operation Guarantee) -40 to +75 °C (Performance Guarantee) -40 to +60 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Cooling	Forced-air-cooling by FAN
Dimension (without Interface Connector)	(L) 180 × (W) 130 × (H) 80 mm [(L) 7.09" × (W) 5.12" × (H) 3.15"]
Weight	2.5 kg [5.5 lbs]

16W MINI-BUC : NJT8319 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	M&C Function	AC Power Option	Power Supply	LED Indicator							
NJT8319UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+42 dBm min. (16W)	N-type	NA	NA	DC Power Input Port: IF Connector	Equipped							
NJT8319UF					F-type											
NJT8319UNM					N-type											
NJT8319UFM					F-type											
NJT8319UNMA					N-type											
NJT8319UFMA					F-type											
NJT8319UNK					N-type	FSK Communications M&C *Note1	Enclosed *Note6 Outdoor AC/DC PSU	DC Power Input Port: MS or IF Connector								
NJT8319UFK					F-type											
NJT8319UNMK					N-type											
NJT8319UFMK					F-type											
NJT8319UNMKA					N-type											
NJT8319UFMKA					F-type											
NJT8319UNMR					N-type	RS-232C Interface M&C *Note2	NA	DC Power Input Port: MS or IF Connector								
NJT8319UFMR					F-type											
NJT8319UNMRA					N-type											
NJT8319UFMRA					F-type											
NJT8319N					14.00 to 14.50 GHz (Standard Ku-band)					13.05 GHz	950 to 1,450 MHz	+42 dBm min. (16W)	N-type	NA	NA	DC Power Input Port: IF Connector
NJT8319F													F-type			
NJT8319NM						N-type										
NJT8319FM						F-type										
NJT8319NMA						N-type										
NJT8319FMA						F-type										
NJT8319NK						N-type	FSK Communications M&C *Note1	Enclosed *Note6 Outdoor AC/DC PSU					DC Power Input Port: MS or IF Connector			
NJT8319FK						F-type										
NJT8319NMK	N-type															
NJT8319FMK	F-type															
NJT8319NMKA	N-type															
NJT8319FMKA	F-type															
NJT8319NMR	N-type	RS-232C Interface M&C *Note2	NA	DC Power Input Port: MS or IF Connector												
NJT8319FMR	F-type															
NJT8319NMRA	N-type															
NJT8319FMRA	F-type															

*Note1: The detail is shown in section of "FSK COMMUNICATIONS M&C".

*Note2: The detail is shown in section of "RS-232C INTERFACE M&C".

*Note6: The detail is shown in section of "OUTDOOR 250W AC/DC PSU".



Standard Ku 16W: NJT8319 series
Universal Ku 16W: NJT8319U series

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+42 dBm min. over temperature
Conversion Gain	68 dB nom., 62 dB min
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+36 to +60 VDC at BUC Input Port 90 to 264 VAC at Outdoor AC/DC PSU: (AC Power Option) NJT8319NMA / 19FMA / 19NMKA / 19FMKA / 19NMRA / 19FMRA / 19UNMA / 19UFMA / 19UNMKA / 19UFMKA / 19UNMRA / 19UFMRA
Power Consumption	160 W typ., 180 W max.
Port for Voltage Input *Note7	Same as IF Connector : NJT8319N / 19F / 19NK / 19FK / 19UN / 19UF / 19UNK / 19UFK MS Connector : NJT8319NM / 19FM / 19NMK / 19FMK / 19NMR / 19FMR / 19UNM / 19UFM / 19UNMK / 19UFMK / 19UNMR / 19UFMR MS Connector supplied by Outdoor AC/DC PSU : NJT8319NMA / 19FMA / 19NMKA / 19FMKA / 19NMRA / 19FMRA / 19UNMA / 19UFMA / 19UNMKA / 19UFMKA / 19UNMRA / 19UFMRA
Temperature Range (ambient)	Operating : (Operation Guarantee) -40 to +75 °C (Performance Guarantee) -40 to +55 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Cooling	Forced-air-cooling by FAN
Dimension (without Interface Connector)	(L) 180 × (W) 130 × (H) 80 mm [(L) 7.09" × (W) 5.12" × (H) 3.15"]
Weight	2.4 kg [5.3 lbs]

*Note7: MS Connector models are available to apply DC voltage via either MS Connector or IF Connector. DO NOT apply DC voltage via both MS Connector and IF Connector. If DC voltage is applied on both connectors, it may damage the unit or the unit may not operate properly.



8W MINI-BUC : NJT8318 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	M&C Function	AC Power Option	Power Supply	LED Indicator						
NJT8318UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+39 dBm min. (8W)	N-type	NA	NA	DC Power Input Port: IF Connector	Equipped						
NJT8318UF					F-type										
NJT8318UNM					N-type										
NJT8318UFM					F-type										
NJT8318UNA					N-type	Enclosed *Note8 Indoor AC/DC PSU	DC Power Supplied by Indoor AC/DC PSU								
NJT8318UFA					F-type										
NJT8318UNK					N-type										
NJT8318UFK					F-type										
NJT8318UNMK					N-type	FSK Communications M&C *Note1	DC Power Input Port: IF Connector								
NJT8318UFMK					F-type										
NJT8318UNMR					N-type										
NJT8318UFMR					F-type										
NJT8318UNMRA					N-type	RS-232C Interface M&C *Note2	DC Power Input Port: MS or IF Connector								
NJT8318UFMRA					F-type										
NJT8318UN					14.00 to 14.50 GHz (Standard Ku-band)			13.05 GHz		950 to 1,450 MHz	+39 dBm min. (8W)	N-type	NA	NA	DC Power Input Port: IF Connector
NJT8318F												F-type			
NJT8318NM						N-type									
NJT8318FM						F-type									
NJT8318NA						N-type	Enclosed *Note8 Indoor AC/DC PSU					DC Power Supplied by Indoor AC/DC PSU			
NJT8318FA						F-type									
NJT8318NK	N-type														
NJT8318FK	F-type														
NJT8318NMK	N-type	FSK Communications M&C *Note1	DC Power Input Port: IF Connector												
NJT8318FMK	F-type														
NJT8318NMR	N-type														
NJT8318FMR	F-type														
NJT8318NMRA	N-type	RS-232C Interface M&C *Note2	DC Power Input Port: MS or IF Connector												
NJT8318FMRA	F-type														
NJT8318UN	14.00 to 14.50 GHz (Standard Ku-band)			13.05 GHz		950 to 1,450 MHz	+39 dBm min. (8W)		N-type			NA	NA	DC Power Input Port: IF Connector	
NJT8318F									F-type						
NJT8318NM		N-type													
NJT8318FM		F-type													
NJT8318NA		N-type	Enclosed *Note8 Indoor AC/DC PSU						DC Power Supplied by Indoor AC/DC PSU						
NJT8318FA		F-type													
NJT8318NK		N-type													
NJT8318FK		F-type													
NJT8318NMK		N-type	FSK Communications M&C *Note1		DC Power Input Port: IF Connector										
NJT8318FMK		F-type													
NJT8318NMR		N-type													
NJT8318FMR		F-type													
NJT8318NMRA		N-type	RS-232C Interface M&C *Note2		DC Power Input Port: MS or IF Connector										
NJT8318FMRA		F-type													

*Note1: The detail is shown in section of "FSK COMMUNICATIONS M&C".

*Note2: The detail is shown in section of "RS-232C INTERFACE M&C".

*Note8: The detail is shown in section of "INDOOR 150W AC/DC PSU".



Standard Ku 8W: NJT8318 series
Universal Ku 8W: NJT8318U series

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+39 dBm min. over temperature
Conversion Gain	65 dB nom., 59 dB min
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+18 to +60 VDC at BUC Input Port 90 to 264 VAC at Indoor AC/DC PSU: (AC Power Option) NJT8318NA / 18FA / 18NMRA / 18FMRA / 18UNA / 18UFA / 18UNMRA / 18UFMRA
Power Consumption	80 W typ., 90 W max.
Port for Voltage Input	Same as IF Connector : NJT8318NA / 18FA / 18NMRA / 18FMRA / 18UNA / 18UFA / 18UNMRA / 18UFMRA
*Note9	MS Connector : NJT8318NM / 18FM / 18NMK / 18FMK / 18NMR / 18FMR / 18UNM / 18UFM / 18UNMK / 18UFMK / 18UNMR / 18UFMR IF Connector supplied by Indoor AC/DC PSU through IF Cable : NJT8318NA / 18FA / 18NMRA / 18FMRA / 18UNA / 18UFA / 18UNMRA / 18UFMRA
Temperature Range (ambient)	Operating : (Operation Guarantee) -40 to +75 °C (Performance Guarantee) -40 to +55 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Cooling	Forced-air-cooling by FAN
Dimension (without Interface Connector)	(L) 180 x (W) 130 x (H) 80 mm [(L) 7.09" x (W) 5.12" x (H) 3.15"]
Weight	2.4 kg [5.3 lbs]

*Note9: MS Connector models are available to apply DC voltage via either MS Connector or IF Connector.
DO NOT apply DC voltage via both MS Connector and IF Connector. If DC voltage is applied on both connectors, it may damage the unit or the unit may not operate properly.



8W BUC : NJT5118 & NJT5218 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	AC Power Option	Power Supply	LED Indicator		
NJT5218N	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+39 dBm min. (8W)	N-type	NA	DC Power	Equipped		
NJT5218F					F-type				Input Port: IF Connector	
NJT5218NM					N-type				DC Power	
NJT5218FM					F-type				Input Port: MS Connector	
NJT5218NA					N-type				Enclosed ^{*Note8} Indoor AC/DC PSU	DC Power
NJT5218FA					F-type					Supplied by Indoor AC/DC PSU
NJT5118N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	NA	DC Power			
NJT5118F					F-type				Input Port: IF Connector	
NJT5118NM					N-type				DC Power	
NJT5118FM					F-type				Input Port: MS Connector	
NJT5118NA					N-type				Enclosed ^{*Note8} Indoor AC/DC PSU	DC Power
NJT5118FA					F-type					Supplied by Indoor AC/DC PSU

*Note8: The detail is shown in section of "INDOOR 150W AC/DC PSU".



Standard Ku 8W: NJT5118 series
Universal Ku 8W: NJT5218 series

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+39 dBm min. over temperature
Conversion Gain	59 dB min
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+18 to +60 VDC at BUC Input Port 90 to 264 VAC at Indoor AC/DC PSU: (AC Power Option) NJT5118NA / 18FA, NJT5218NA / 18FA
Power Consumption	79 W typ., 90 W max. : (Standard Ku-band) NJT5118 series 79 W typ., 93 W max. : (Universal Ku-band) NJT5218 series
Port for Voltage Input	Same as IF Connector : NJT5118N / 18F, NJT5218N / 18F MS Connector : NJT5118NM / 18FM, NJT5218NM / 18FM IF Connector supplied by Indoor AC/DC PSU through IF Cable : NJT5118NA / 18FA, NJT5218NA / 18FA
Temperature Range (ambient)	Operating : -40 to +55 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 219.5 x (W) 175 x (H) 99 mm [(L) 8.64" x (W) 6.89" x (H) 3.90"]
Weight	3.2 kg [7.0 lbs]

6W BUC : NJT8306 series

UNIVERSAL KU-BAND



Standard Ku 6W: NJT8306 series
Universal Ku 6W: NJT8306U series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8306UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+37.8 dBm min. (6W)	N-type	Equipped
NJT8306UF					F-type	
NJT8306N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	
NJT8306F					F-type	

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+37.8 dBm min. over temperature
Conversion Gain	62 dB nom., 56 dB min.
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	1.3 : 1 max. for Recommendation of Output Load V.S.W.R.
Power Requirement	+12 to +30 VDC
Power Consumption	40 W typ., 48 W max.
Temperature Range (ambient)	Operating : (Operation Guarantee) -40 to +65 °C (Performance Guarantee) -40 to +60 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 174.9 x (W) 84 x (H) 59.2 mm [(L) 6.89" x (W) 3.31" x (H) 2.33"]
Weight	1.2 kg [2.6 lbs]

4W BUC : NJT8304 series

UNIVERSAL KU-BAND



Standard Ku 4W: NJT8304 series
Universal Ku 4W: NJT8304U series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8304UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+36 dBm min. (4W)	N-type	NA
NJT8304UF					F-type	
NJT8304N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	
NJT8304F					F-type	

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+36.0 dBm min. over temperature
Conversion Gain	62 dB nom., 56 dB min.
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+12 to +30 VDC
Power Consumption	28 W typ., 32 W max.
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 98 x (W) 98 x (H) 42.5 mm [(L) 3.86" x (W) 3.86" x (H) 1.65"]
Weight	500 g [1.1 lbs]

3W / 1.5W BUC : NJT8301 & NJT8302 series

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Standard Ku 3W: NJT8302 series
 Universal Ku 3W: NJT8302U series
 Standard Ku 1.5W: NJT8301 series
 Universal Ku 1.5W: NJT8301U series

3W BUC: NJT8302 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8302UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+34 dBm min. (3W)	N-type	NA
NJT8302UF					F-type	
NJT8302N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	
NJT8302F					F-type	

1.5W BUC: NJT8301 series

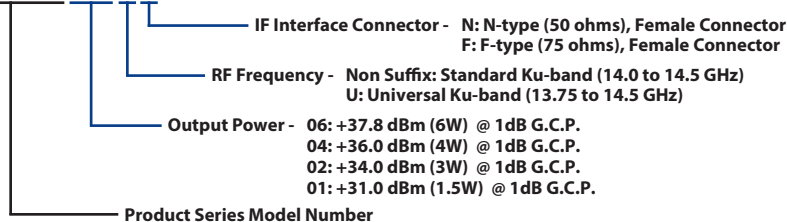
Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8301UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+31 dBm min. (1.5W)	N-type	NA
NJT8301UF					F-type	
NJT8301N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	
NJT8301F					F-type	

Specifications

Item	Specifications
Output Interface	Waveguide, WR 75 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+34.0 dBm min. over temperature : (3W) NJT8302 series +31.0 dBm min. over temperature : (1.5W) NJT8301 series
Conversion Gain	58 dB typ., 51 dB min. : (3W) NJT8302 series 55 dB typ., 48 dB min. : (1.5W) NJT8301 series
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+12 to +30 VDC
Power Consumption	18 W typ., 23 W max. : (3W) NJT8302 series 12 W typ., 14 W max. : (1.5W) NJT8301 series
Temperature Range (ambient)	Operating : -40 to +55 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 91.55 x (W) 68 x (H) 42.5 mm [(L) 3.6" x (W) 2.68" x (H) 1.67"]
Weight	350 g [0.77 lbs]

Model Numbering System

N J T 8 3 0 6 U N



Switchable 2LO PLL LNB [Internal & External Reference Type] : NJR2841, NJR2842 & NJR2843 series

UNIVERSAL KU-BAND



Universal Ku 2LO PLL (Int. & Ext.):
NJR2841 series
NJR2842 series
NJR2843 series

Internal Reference Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Frequency Selected by *Note9	Local Stability [-40 to +60 °C]	IF Connector
NJR2841L	Low Band: 10.70 to 11.70 GHz	Low Band: 9.75 GHz	Low Band: 950 to 1,950 MHz	Mechanical Switch	+/- 50 ppm (+/- 500 kHz typ.)	F-type
NJR2841LN						N-type
NJR2841H	High Band: 11.70 to 12.75 GHz (Universal Ku-band)	High Band: 10.60 GHz	High Band: 1,100 to 2,150 MHz			F-type
NJR2841HN						N-type
NJR2841S	22kHz Tone	+/- 3 ppm (+/- 30 kHz typ.)	F-type			
NJR2841SN			N-type			
NJR2842L			F-type			
NJR2842LN	Input Voltage	+/- 50 ppm (+/- 500 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	N-type		
NJR2842H				F-type		
NJR2842HN				N-type		
NJR2842S	+/- 3 ppm (+/- 30 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	F-type		
NJR2842SN				N-type		
NJR2843L				F-type		
NJR2843LN	+/- 50 ppm (+/- 500 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	N-type		
NJR2843H				F-type		
NJR2843HN				N-type		
NJR2843S	+/- 3 ppm (+/- 30 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	+/- 3 ppm (+/- 30 kHz typ.)	F-type		
NJR2843SN				N-type		

External Reference Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Frequency Selected by *Note9	Local Stability [-40 to +60 °C]	IF Connector
NJR2841E	Low Band: 10.70 to 11.70 GHz	Low Band: 9.75 GHz	Low Band: 950 to 1,950 MHz	Mechanical Switch	Depends on External Reference	F-type
NJR2841EN						N-type
NJR2842E	High Band: 11.70 to 12.75 GHz (Universal Ku-band)	High Band: 10.60 GHz	High Band: 1,100 to 2,150 MHz			22kHz Tone
NJR2842EN				N-type		
NJR2843E	Input Voltage	+/- 50 ppm (+/- 500 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	+/- 10 ppm (+/- 100 kHz typ.)	F-type	
NJR2843EN					N-type	

*Note9: The detail is shown in section of "LOCAL FREQUENCY SELECTION".

Specifications

Item	Specifications
Input Interface	Waveguide, WR 75 with Groove
Output Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Noise Figure (at +25 °C)	0.8 dB
Conversion Gain (at +25 °C)	62 dB max., 48 dB min.
Requirement External Reference Signal (Only External Reference Type is specified)	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -10 to 0 dBm Phase Noise: -135 dBc/Hz @100Hz -143 dBc/Hz @1kHz -145 dBc/Hz @10kHz
Phase Noise (SSB)	(Internal Reference Type) : -70 dBc/Hz @1kHz -75 dBc/Hz @10kHz -85 dBc/Hz @100kHz (External Reference Type) : -70 dBc/Hz @1kHz -75 dBc/Hz @10kHz -85 dBc/Hz @100kHz * Depends on Phase Noise of External Reference
Power Requirement	+10 to +24 VDC
Operating Current	170 mA max. : (Internal Reference Type) 200 mA max. : (External Reference Type)
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +80 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension	(L) 83.2 x (W) 42 x (H) 42 mm [(L) 3.28" x (W) 1.65" x (H) 1.65"] : NJR2841 series
(without Interface Connector & Mechanical Switch)	(L) 83.2 x (W) 40 x (H) 40 mm [(L) 3.28" x (W) 1.57" x (H) 1.57"] : NJR2842 / NJR2843 series
Weight	210 g [0.46 lbs] : (F-type IF Connector) / 240 g [0.53 lbs] : (N-type IF Connector)

LOCAL FREQUENCY SELECTION

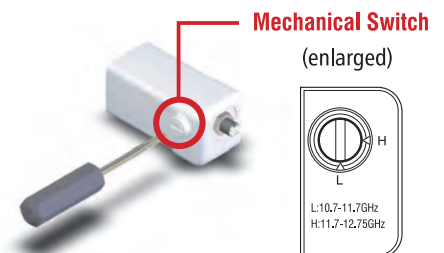
In case of the products of Switchable 2LO PLL LNB, the following three methods to switch local frequency can be chosen by the customer

- Mechanical Switch
- 22kHz Tone On/Off
- Input Voltage High/Low

Specification of Local Switch

	RF Frequency	
	Low Band (10.7 to 11.7 GHz)	High Band (11.7 to 12.75 GHz)
Initial Set		
Mechanical Switch		
22kHz Tone On/Off	Tone Level: 0 to 0.2 Vp-p	Tone Level: 0.4 to 0.8 Vp-p
Input Voltage High/Low	Voltage: +10 to +14 VDC	Voltage: +15.5 to +24 VDC

Image of Mechanical Switch



Applicable Models: NJR2841, NJR2842 and NJR2843 series

PLL LNB [Internal & External Reference Type] : NJR2835 & NJR2935E series



Ku PLL (Int): NJR2835 series
Ku PLL (Ext): NJR2935E series

Internal Reference Type: NJR2835 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJR2837H	10.95 to 11.70 GHz	10.00 GHz	950 to 1,700 MHz	+/- 10 ppm	F-type
NJR2837HN				(+/- 100 kHz typ.)	N-type
NJR2837S				+/- 3 ppm	F-type
NJR2837SN				(+/- 30 kHz typ.)	N-type
NJR2837U				+/- 1 ppm	F-type
NJR2837UN	(+/- 10 kHz typ.)	N-type			
NJR2839H	11.20 to 11.70 GHz	10.25 GHz	950 to 1,450 MHz	+/- 10 ppm	F-type
NJR2839HN				(+/- 100 kHz typ.)	N-type
NJR2839S				+/- 3 ppm	F-type
NJR2839SN				(+/- 30 kHz typ.)	N-type
NJR2839U				+/- 1 ppm	F-type
NJR2839UN	(+/- 10 kHz typ.)	N-type			
NJR2835H	11.70 to 12.20 GHz	10.75 GHz	950 to 1,450 MHz	+/- 10 ppm	F-type
NJR2835HN				(+/- 100 kHz typ.)	N-type
NJR2835S				+/- 3 ppm	F-type
NJR2835SN				(+/- 30 kHz typ.)	N-type
NJR2835U				+/- 1 ppm	F-type
NJR2835UN	(+/- 10 kHz typ.)	N-type			
NJR2836H	12.25 to 12.75 GHz	11.30 GHz	950 to 1,450 MHz	+/- 10 ppm	F-type
NJR2836HN				(+/- 100 kHz typ.)	N-type
NJR2836S				+/- 3 ppm	F-type
NJR2836SN				(+/- 30 kHz typ.)	N-type
NJR2836U				+/- 1 ppm	F-type
NJR2836UN	(+/- 10 kHz typ.)	N-type			

External Reference Type: NJR2935E series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJR2937E	10.95 to 11.70 GHz	10.00 GHz	950 to 1,700 MHz	Depends on External Reference	F-type
NJR2937EN					N-type
NJR2939E	11.20 to 11.70 GHz	10.25 GHz	950 to 1,450 MHz		F-type
NJR2939EN					N-type
NJR2935E	11.70 to 12.20 GHz	10.75 GHz	950 to 1,450 MHz		F-type
NJR2935EN					N-type
NJR2934E	12.20 to 12.75 GHz	11.25 GHz	950 to 1,500 MHz		F-type
NJR2934EN					N-type
NJR2936E	12.25 to 12.75 GHz	11.30 GHz	950 to 1,450 MHz		F-type
NJR2936EN					N-type

Specifications

Item	Specifications
Input Interface	Waveguide, WR 75 with Groove
Output Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Noise Figure (at +25 °C)	0.8 dB
Conversion Gain (at +25 °C)	60 dB typ.
Requirement External Reference Signal (Only NJR2935E series are specified)	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -10 to 0 dBm Phase Noise: -135 dBc/Hz @100Hz -143 dBc/Hz @1kHz -145 dBc/Hz @10kHz
Phase Noise (SSB)	(Internal Reference Type) NJR2835 series : -70 dBc/Hz @100Hz -80 dBc/Hz @1kHz (External Reference Type) NJR2935E series : -75 dBc/Hz @100Hz -80 dBc/Hz @1kHz -85 dBc/Hz @10kHz * Depends on Phase Noise of External Reference
Power Requirement	+12 to +24 VDC
Operating Current	250 mA max.
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +80 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L)100.5 x (W) 40 x (H) 40 mm [(L) 3.96" x (W) 1.57" x (H) 1.57"]
Weight	260 g [0.57 lbs]

10W BUC : NJT5762 series

10W BUC: NJT5762, NJT5763 & NJT5764 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	AC Power Option	Power Supply	M&C Function	LED Indicator Equipped						
NJT5763N	5.850 to 6.725 GHz (Full C-band)	4.90 GHz	950 to 1,825 MHz	+40 dBm min. (10W)	N-type	NA	DC Power	NA	Equipped						
NJT5763F					F-type		Input Port: IF Connector								
NJT5763NM					N-type		DC Power								
NJT5763FM					F-type		Input Port: MS Connector								
NJT5763NA					Enclosed ^{*Note8} Indoor AC/DC PSU		DC Power								
NJT5763FA							Supplied by Indoor AC/DC PSU								
NJT5763KN							DC Power								
NJT5763KF							Input Port: IF Connector								
NJT5763KNM							DC Power								
NJT5763KFM							Input Port: MS Connector								
NJT5762N					5.850 to 6.425 GHz (Standard C-band)					950 to 1,525 MHz		N-type	NA	DC Power	FSK Communications M&C ^{*Note1}
NJT5762F												F-type		Input Port: IF Connector	
NJT5762NM												N-type		DC Power	
NJT5762FM												F-type		Input Port: MS Connector	
NJT5762NA	Enclosed ^{*Note8} Indoor AC/DC PSU	DC Power													
NJT5762FA		Supplied by Indoor AC/DC PSU													
NJT5762KN		DC Power													
NJT5762KF		Input Port: IF Connector													
NJT5762KNM		DC Power													
NJT5762KFM		Input Port: MS Connector													
NJT5764N	6.725 to 7.025 GHz (Insat C-band)	5.76 GHz	965 to 1,265 MHz			N-type		NA	DC Power			NA			
NJT5764F						F-type			Input Port: IF Connector						
NJT5764NM						N-type			DC Power						
NJT5764FM						F-type			Input Port: MS Connector						
NJT5764NA					Enclosed ^{*Note8} Indoor AC/DC PSU	DC Power									
NJT5764FA						Supplied by Indoor AC/DC PSU									
NJT5764KN						DC Power									
NJT5764KF						Input Port: IF Connector									
NJT5764KNM						DC Power									
NJT5764KFM						Input Port: MS Connector									
NJT5764N					6.725 to 7.025 GHz (Insat C-band)	5.76 GHz	965 to 1,265 MHz			N-type	NA		DC Power	FSK Communications M&C ^{*Note1}	
NJT5764F										F-type			Input Port: IF Connector		
NJT5764NM										N-type			DC Power		
NJT5764FM										F-type			Input Port: MS Connector		
NJT5764NA	Enclosed ^{*Note8} Indoor AC/DC PSU	DC Power													
NJT5764FA		Supplied by Indoor AC/DC PSU													
NJT5764KN		DC Power													
NJT5764KF		Input Port: IF Connector													
NJT5764KNM		DC Power													
NJT5764KFM		Input Port: MS Connector													

*Note1: The detail is shown in section of "FSK COMMUNICATIONS M&C".
*Note8: The detail is shown in section of "INDOOR 150W AC/DC PSU".



Standard C 10W: NJT5762 series
Full C 10W: NJT5763 series
Insat C 10W: NJT5764 series

Specifications

Item	Specifications
Output Interface	Waveguide, CPR 137 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+40 dBm min. over temperature
Conversion Gain	64 dB nom., 58 dB min.
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -125 dBc/Hz @100Hz -135 dBc/Hz @1kHz -140 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+18 to +60 VDC at BUC Input Port 90 to 264 VAC at Indoor AC/DC PSU: (AC Power Option) NJT5762NA / 62FA / 63NA / 63FA / 64NA / 64FA
Power Consumption	69 W typ., 75 W max.: (10W / Standard C-band) NJT5762 series 75 W typ., 85 W max.: (10W / Full C-band) NJT5763 series 73 W typ., 80 W max.: (10W / Insat C-band) NJT5764 series
Port for Voltage Input	Same as IF Connector : NJT5762N / 62F / 62KN / 62KF / 63N / 63F / 63KN / 63KF / 64N / 64F / 64KN / 64KF MS Connector : NJT5762NM / 62FM / 62KNM / 62KFM / 63NM / 63FM / 63KNM / 63KFM / 64NM / 64FM / 64KNM / 64KFM IF Connector supplied by Indoor AC/DC PSU through IF Cable : NJT5762NA / 62FA / 63NA / 63FA / 64NA / 64FA
Temperature Range (ambient)	Operating : -40 to +55 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 219.5 x (W) 175 x (H) 99 mm [(L) 8.64" x (W) 6.89" x (H) 3.90"]
Weight	3.2 kg [7.0 lbs]

5W BUC : NJT5669 series

FULL C-BAND



Standard C 5W: NJT5669 series

Full C 5W: NJT5677 series

Palapa C 5W: NJT5675 series

Insat C 5W: NJT5670 series

5W BUC: NJT5669, NJT5670, NJT5675 & NJT5677 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT5677N	5.850 to 6.725 GHz (Full C-band)	4.90 GHz	950 to 1,825 MHz	+37 dBm min. (5W)	N-type	Equipped
NJT5677F			F-type			
NJT5669	5.850 to 6.425 GHz (Standard C-band)	5.30 GHz	950 to 1,525 MHz		N-type	
NJT5669F			F-type			
NJT5675N	6.365 to 6.725 GHz (Palapa C-band)	5.30 GHz	1,065 to 1,425 MHz	N-type	F-type	
NJT5675F				N-type	F-type	
NJT5670	6.725 to 7.025 GHz	5.76 GHz	965 to 1,265 MHz		N-type	
NJT5670F	(Insat C-band)				F-type	

3W / 2W BUC : NJT5668, NJT8102 & NJT8103 series

FULL C-BAND



Full C 3W: NJT8103W series

Standard C 3W: NJT8103 series

Full C 2W: NJT8102W series

Standard C 2W: NJT8102 series

3W BUC: NJT8103 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8103WN	5.850 to 6.725 GHz (Full C-band)	4.90 GHz	950 to 1,825 MHz	+34.5 dBm min. (3W)	N-type	N/A
NJT8103WF			F-type			
NJT8103N	5.850 to 6.425 GHz (Standard C-band)	5.30 GHz	950 to 1,525 MHz		N-type	
NJT8103F			F-type			

2W BUC: NJT5668 & NJT8102 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8102WN	5.850 to 6.725 GHz (Full C-band)	4.90 GHz	950 to 1,825 MHz	+33 dBm min. (2W)	N-type	N/A
NJT8102WF			F-type			
NJT8102N	5.850 to 6.425 GHz (Standard C-band)	5.30 GHz	950 to 1,525 MHz		N-type	
NJT8102F			F-type			
NJT5668	6.725 to 7.025 GHz	5.76 GHz	965 to 1,265 MHz		N-type	Equipped
NJT5668F	(Insat C-band)				F-type	

FULL C-BAND



Insat C 2W: NJT5678 series

Specifications

Item	Specifications
Output Interface	Waveguide, CPR 137 with Groove
Input Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Output Power @ 1 dB G.C.P.	+37.0 dBm min. over temperature : (5W) NJT5669 / NJT5670 / NJT5675 / NJT5677 series +34.5 dBm min. over temperature : (3W) NJT8103 series +33.0 dBm min. over temperature : (2W) NJT5668 / NJT8102 series
Conversion Gain	61 dB nom. : (5W) NJT5669 / NJT5670 / NJT5675 / NJT5677 series 59 dB nom., 53 dB min. : (3W) NJT8103 series 58 dB nom., 52 dB min. : (2W) NJT8102 series 58 dB nom. : (2W / Insat C-band) NJT5668 series
Requirement External Reference Signal	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -5 to +5 dBm Phase Noise: -120 dBc/Hz @100Hz -130 dBc/Hz @1kHz -140 dBc/Hz @10kHz
Phase Noise (SSB)	-60 dBc/Hz @100Hz -70 dBc/Hz @1kHz -80 dBc/Hz @10kHz -90 dBc/Hz @100kHz -100 dBc/Hz @1MHz
Input V.S.W.R.	2.0 : 1 max. @ IF Frequency
Output V.S.W.R.	2.0 : 1 max. @ RF Frequency
Power Requirement	+12 to +30 VDC : NJT8103 / NJT8102 series +15 to +30 VDC : NJT5668 / NJT5669 / NJT5670 / NJT5675 / NJT5677 series
Power Consumption	48 W max. : (5W) NJT5669 / NJT5670 / NJT5675 / NJT5677 series 21 W typ., 25 W max. : (3W) NJT8103 series 18 W typ., 22 W max. : (2W) NJT8102 series 33 W max. : (2W / Insat C-band) NJT5668 series
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +75 °C : NJT8103 / NJT8102 series Operating : -40 to +55 °C Storage : -40 to +75 °C : NJT5668 / 69 / 70 / 75 / 77 series
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 135.4 x (W) 85 x (H) 56 mm [(L) 5.31" x (W) 3.35" x (H) 2.20"] : NJT8103 / NJT8102 series (L) 190.6 x (W) 160 x (H) 59 mm [(L) 7.50" x (W) 6.30" x (H) 2.32"] : NJT5668 / 69 / 70 / 75 / 77 series
Weight	800 g [1.8 lbs] : NJT8103 / NJT8102 series 1.9 kg [4.2 lbs] : NJT5668 / NJT5669 / NJT5670 / NJT5675 / NJT5677 series

■ PLL LNB [Internal & External Reference Type] : NJS8486 & NJS8486E series



C PLL (Int): NJS8486 series
C PLL (Ext): NJS8486E series

● Internal Reference Type: NJS8486 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJS8486H	3.400 to 4.200 GHz (Palapa C-band)	5.15 GHz	950 to 1,750 MHz	+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8486HN					N-type
NJS8486S					F-type
NJS8486SN					N-type
NJS8486U					F-type
NJS8486UN					N-type
NJS8487H	3.625 to 4.200 GHz (Standard C-band)	5.15 GHz	950 to 1,525 MHz	+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8487HN					N-type
NJS8487S					F-type
NJS8487SN					N-type
NJS8487U					F-type
NJS8487UN					N-type
NJS8488H	4.500 to 4.800 GHz (Insat C-band)	5.76 GHz	960 to 1,260 MHz	+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8488HN					N-type
NJS8488S					F-type
NJS8488SN					N-type
NJS8488U					F-type
NJS8488UN					N-type

● External Reference Type: NJS8486E series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJS8486E	3.400 to 4.200 GHz (Palapa C-band)	5.15 GHz	950 to 1,750 MHz	Depend on External Reference	F-type
NJS8486EN					N-type
NJS8487E	3.625 to 4.200 GHz (Standard C-band)	5.15 GHz	950 to 1,525 MHz		F-type
NJS8487EN					N-type
NJS8488E	4.500 to 4.800 GHz (Insat C-band)	5.76 GHz	960 to 1,260 MHz		F-type
NJS8488EN					N-type

■ Specifications

Item	Specifications
Input Interface	Waveguide, CPR 229 (with Groove)
Output Interface	Coax. Connector, N-type female (50 ohm) / F-type female (75 ohm)
Noise Temperature (at +25 °C)	15 K
Conversion Gain (at +25 °C)	59 dB min.
Requirement External Reference Signal (Only NJS8486E series is specified)	Input Port: IF Connector (combine reference with IF signal) Frequency: 10 MHz (sine-wave) Input Power: -10 to 0 dBm Phase Noise: -135 dBc/Hz @100Hz -143 dBc/Hz @1kHz -145 dBc/Hz @10kHz
Phase Noise (SSB)	(Internal Reference Type) NJS8486 series -70 dBc/Hz @100Hz -80 dBc/Hz @1kHz -85 dBc/Hz @10kHz -90 dBc/Hz @ 100 kHz (External Reference Type) NJS8486E series -70 dBc/Hz @100Hz -80 dBc/Hz @1kHz -85 dBc/Hz @10kHz -90 dBc/Hz @ 100 kHz * Depends on Phase Noise of External Reference
Power Requirement	+12 to +24 VDC
Operating Current	350 mA : (Internal Reference type) NJS8486 series 400 mA : (External Reference type) NJS8486E series
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +80 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 80.8 x (W) 99.6 x (H) 76 mm [(L) 3.18" x (W) 3.92" x (H) 2.99"]
Weight	800 g [1.76 lbs]

■ LNA : NJS8451 & NJS8452



LNA: NJS8451 & NJS8452

Model No.	RF Frequency
NJS8452	3.400 to 4.200 GHz (Palapa C-band)
NJS8451	4.500 to 4.800 GHz (Insat C-band)

■ Specifications

Item	Specifications
Input Interface	Waveguide, CPR 229 (with Groove)
Output Interface	Coax. Connector, N-type female (50 ohm)
Noise Temperature (at +25 °C)	15 K
Gain (at +25 °C)	48 dB min., 55 dB max. : (Palapa C-band) NJS8452 55 dB min., 62 dB max. : (Insat C-band) NJS8451
Input V.S.W.R.	3.0 : 1 @ RF Frequency
Output V.S.W.R.	2.0 : 1 @ RF Frequency
Power Requirement	+12 to +28 VDC
Operating Current	125 mA typ., 160 mA max.
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +80 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 80.8 x (W) 99.6 x (H) 76 mm [(L) 3.18" x (W) 3.92" x (H) 2.99"]
Weight	800 g [1.76 lbs]

GENERAL PRECAUTIONS

Use the following safety instructions and guidelines and to help protect the products from potential damage and to help ensure your own personal safety.

BUCs Instructions:

CAUTION Sealing Film

DO NOT remove the film on the waveguide when the unit has it. If the film is removed, it may lose the performance of waterproof.

CAUTION Cover

DO NOT open the cover. Although the unit is completely waterproof, if the cover is opened, the warranty will become invalid.

CAUTION Product Label

DO NOT remove the label. This is for our QA traceability

CAUTION Connector

Connect the IF cable with 0.68 to 1.13 N·m torques.

CAUTION WG Filter

DO NOT touch the filter in the waveguide. The filter is used for Rx-band rejection. If the filter is damaged or dirty, it may not reject a sufficient quantity of false Rx-bands and could damage BUC internals.

CAUTION Input Voltage

Apply DC voltage within the range indicated on product label. BUCs are operated at the input voltage of +12 to +30VDC, +15 to +24VDC, +15 to +30VDC, +18 to +60VDC, or +36 to +60VDC.

CAUTION Input IF Level

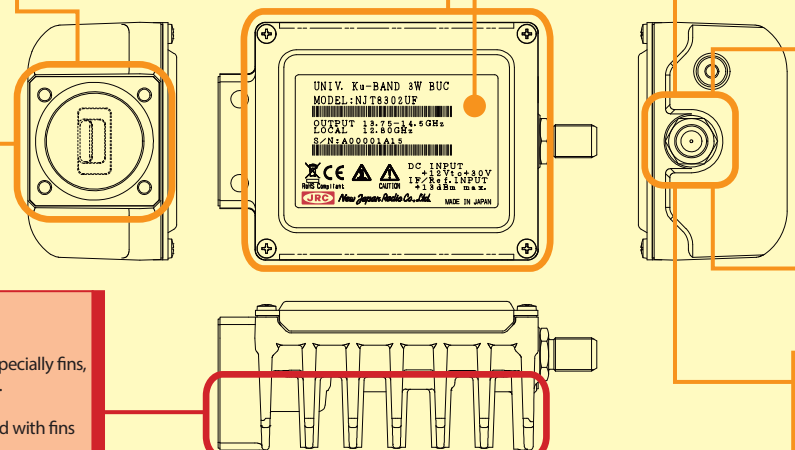
DO NOT supply IF signal over the maximum level indicated on product label of +10 or +13 dBm.

WARNING Fins

Warning: DO NOT touch the body, especially fins, when the product is running. It is hot. DO NOT block the fins. Normally the BUC should be mounted with fins face up.

CAUTION 10MHz Reference

Supply 10MHz reference signal within the range of -5 to +5 dBm.



LNBS Instructions:

CAUTION Sealing Film

DO NOT remove the film on the waveguide when the unit has it. If the film is removed, it may lose the performance of waterproof.

CAUTION Cover

DO NOT open the cover. Although the unit is completely waterproof, if the cover is opened, the warranty will become invalid.

CAUTION Product Label

DO NOT remove the label. This is for our QA traceability

CAUTION Connector

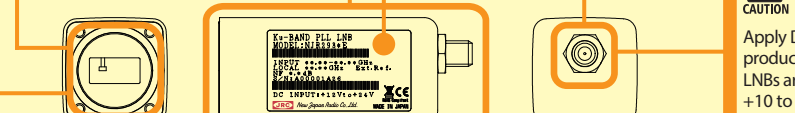
Connect the IF cable with 0.68 to 1.13 N·m torques.

CAUTION Input RF Level

DO NOT supply RF signal over the absolute maximum rating of -10 dBm @ CW or +10 dBm @ Pulse.

CAUTION Input Voltage

Apply DC voltage within the range indicated on product label. LNBS are operated at the input voltage of +10 to +24VDC, +12 to +24VDC, or +12 to +28VDC.



DECLARATION OF EC DIRECTIVE




New Japan Radio Co., Ltd. declare that all of the BUCs and LNBS are in compliance with the regulations which standard are required for EMC directive 2014/30/EU and Reduction of Hazardous Substance (RoHS) directive 2011/65/EU.



LED INDICATOR

BUC products integrated with LED Indicator show normal or abnormal conditions.

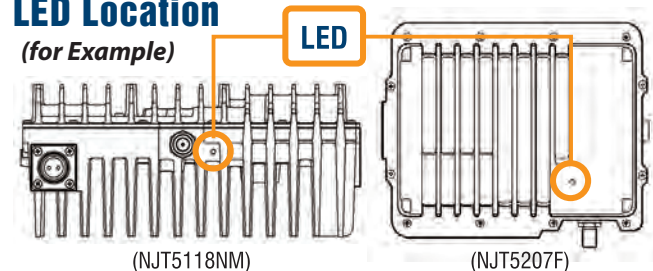
Status Chart

			
DC Power	OFF	ON	ON
10 MHz Reference Signal	OFF	OFF or LO unlocked	ON "Normal"

Applicable Models: All models of BUC except NJT8301/02, NJT8304, and NJT8102/03 series

LED Location

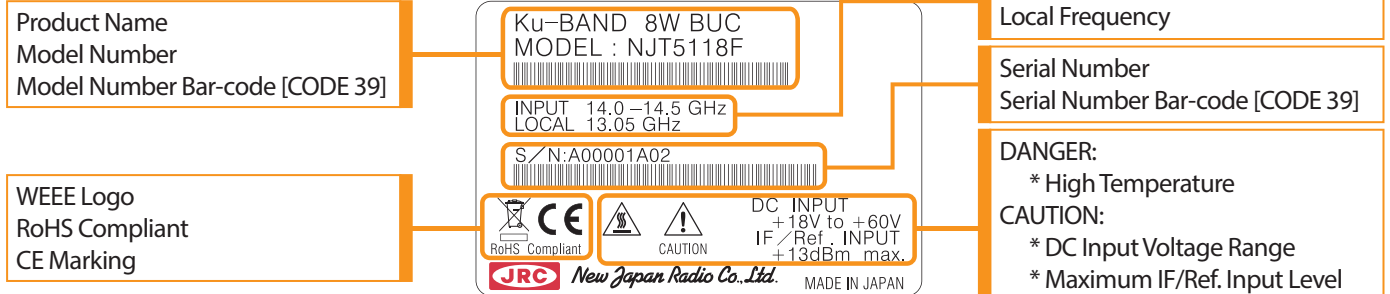
(for Example)



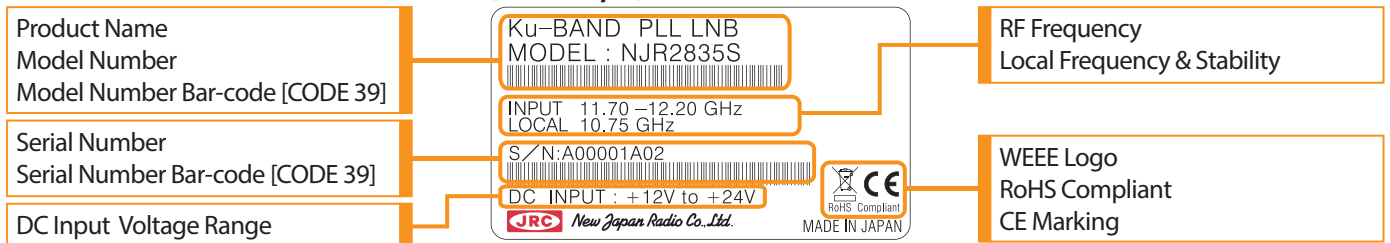
PRODUCT LABEL

The common product label with following format is employed for both of all LNBS and BUCs manufactured by New Japan Radio Co., Ltd.

BUC Label Format:



LNB Label Format:



Applicable Models: All models of LNB and BUC

MUTE FUNCTION

Mute function which shut off the HPA function due to local unlocked or no 10MHz reference signal is equipped for all BUCs.

Applicable Models: All models of BUC

OUTDOOR 500W AC/DC PSU

The features of Outdoor 500W AC/DC Power Supply Unit (PSU) are to provide the stable +51V DC power to operate Ku-band 40W BUC, even if power supply of the equipment is not capable enough to operate the BUC. This unit employs the aluminum housing with corrosion-proof treatment on the surface and has air-sealing structure in order to use perfectly as the outdoor unit. In addition, the outdoor 500W AC/DC PSU complies with **EC DIRECTIVE**.

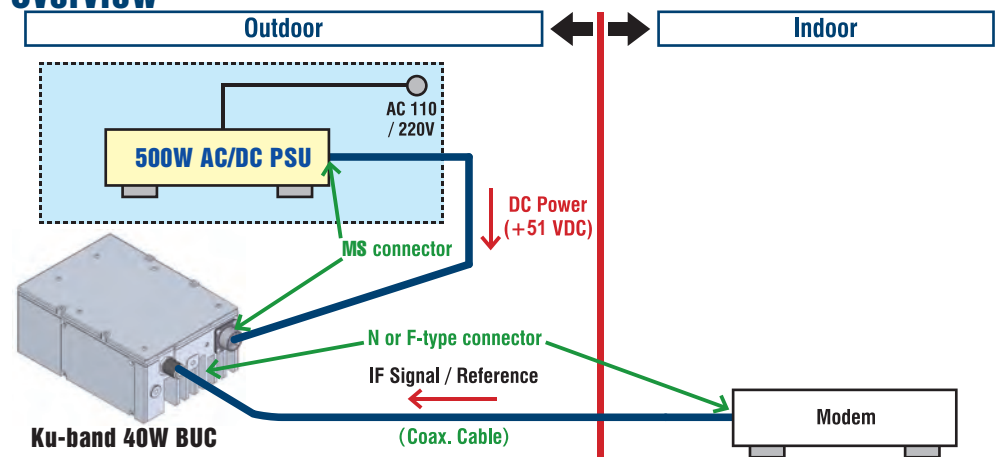


Outdoor 500W AC/DC PSU



Applicable Models:
NJT8371 series

Overview



OUTDOOR 250W AC/DC PSU

The features of Outdoor 250W AC/DC Power Supply Unit (PSU) are to provide the stable +48V DC power to operate Ku-band 16W/25W BUC, even if power supply of the equipment is not capable enough to operate the BUC. This unit employs the aluminum housing with corrosion-proof treatment on the surface and has air-sealing structure in order to use perfectly as the outdoor unit.

In addition, the outdoor 250W AC/DC PSU complies with **EC DIRECTIVE**.

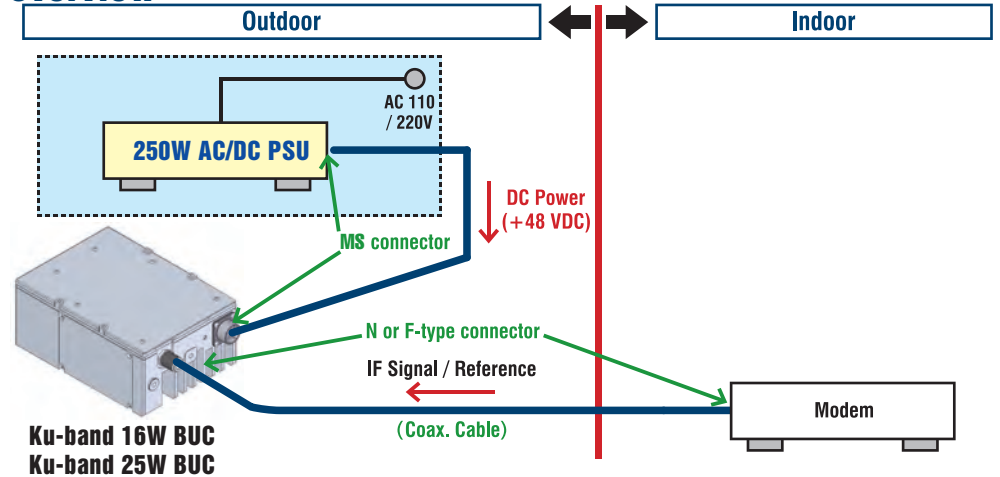


Outdoor 250W AC/DC PSU



Applicable Models:
NJT8319 and NJT8370 series

Overview

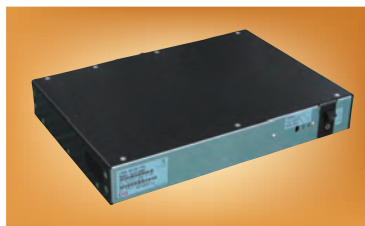


INDOOR 150W AC/DC PSU

The features of Indoor 150W AC/DC Power Supply Unit (PSU) are to provide the stable +48V DC power to operate both C-band 8W/10W and Ku-band 8W BUCs, even if inner power supply of the modem is not capable enough to operate these BUCs.

The indoor AC/DC PSU, which is having enough power supply of 150W as well as having the bias-tee which enable to pass 10MHz reference signal and IF signal from the modem, is operated by AC Power and enable to operate these BUCs.

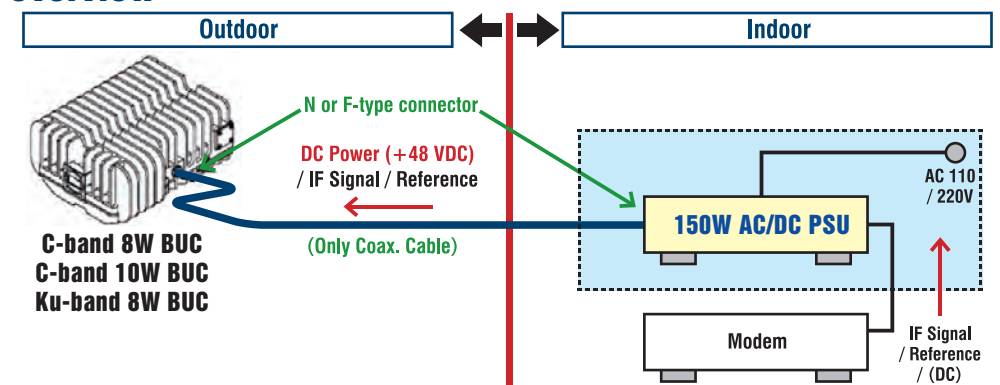
In addition the indoor 150W AC/DC PSU complies with **UL CERTIFICATION** and **EC DIRECTIVE** and this housing can fit the 1U rack mount with optional kit.



Indoor 150W AC/DC PSU

Applicable Models:
NJT5118, NJT5218, NJT5760,
NJT5762, NJT5763, NJT5764,
and NJT8318 series

Overview



FSK COMMUNICATIONS M&C

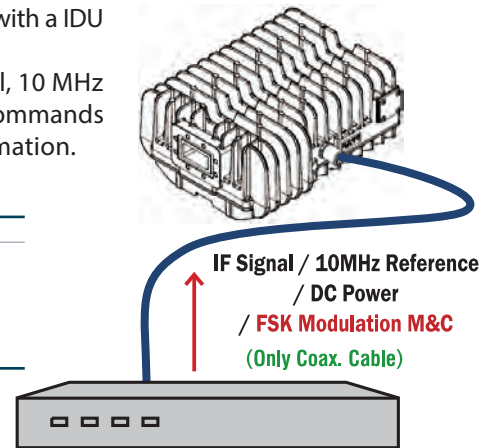
The BUC equipped FSK communications M&C includes capability to communicate with a IDU (e.g. satellite modem or M&C controller).

The signal of the M&C is multiplexed onto the IF coaxial cable with the IF signal, 10 MHz reference, and DC power between the BUC and the IDU. The M&C implements commands to control BUC functions and to query the BUC for configuration or status information.

Functions

CONTROL	MONITOR	
<ul style="list-style-type: none"> ● Request Status ● Set Transmit On/Off Control 	<ul style="list-style-type: none"> ● Output Power Monitor <ul style="list-style-type: none"> * Detector Range: 20 dB (up to P1dB) * Accuracy: +/- 1.0 dB ● Temperature Monitor <ul style="list-style-type: none"> etc 	<ul style="list-style-type: none"> ● Status <ul style="list-style-type: none"> * Temperature Out-of-Range * PLL Out-of-Lock * Tx Status

Applicable Models: NJT5762, NJT5763, NJT5764, NJT8318, NJT8319, NJT8370 and NJT8371 series



RS-232C INTERFACE M&C

The BUC equipped RS-232C interface M&C includes capability to communicate with a IDU (e.g. M&C controller or personal computer). The signal of the M&C is compliance with RS-232C and the M&C implements commands to control BUC functions and to query the BUC for configuration or status information.

Functions

CONTROL	MONITOR
<ul style="list-style-type: none"> ● Request Status ● Transmit On/Off Control ● Step Attenuator Setting <ul style="list-style-type: none"> * Attenuator Range: 0 to 15.5 dB * Attenuator Step: 0.5 dB 	<ul style="list-style-type: none"> ● Output Power Monitor <ul style="list-style-type: none"> * Detector Range: 15 dB (up to P1dB/Psat) * Accuracy: +/- 1.0 dB ● Temperature Monitor ● Status <ul style="list-style-type: none"> * Temperature Out-of-Range * PLL Out-of-Lock * Tx Status etc

Applicable Models: NJT8318, NJT8319, NJT8370 and NJT8371 series

QUALITY & ENVIRONMENTAL MANAGEMENT

The New Japan Radio group strives to contribute to quality and the environment by maintaining and improving two management systems which are positioned as part of quality management and environmental management.

In order to facilitate quality management and environmental management, we declare the Quality and Environmental Vision as the superior guidelines for the New Japan Radio group. Moreover, basic quality/environmental policies are also set at each company where activities focusing on the improvement and management of quality and the environment are being carried out.

QUALITY POLICY

The New Japan Radio Group provides products and services meeting quality expectations of society and customers by ingenious technologies and originality of all the members.

ENVIRONMENTAL POLICY

The New Japan Radio Group recognizes that protecting the global environment is a significant universal subject to ensure sustainable growth, since we work together for the sake of environmental conservation in all fields of manufacturing, sales, and service of semiconductor and microwave products.

QUALITY & ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION

ISO 9001 : 2015

Registration Date: November 25, 1994
Last Renewal Date: January 10, 2018
Expiry Date: January 9, 2021
Certification Number: JQA-0686
Certification Organization: JQA (*)

(*) JQA: Japan Quality Assurance Organization

ISO 14001 : 2015

Registration Date: December 17, 2004
Last Renewal Date: January 13, 2018
Expiry Date: January 12, 2021
Certification Number: JQA-EM4431
Certification Organization: JQA



CAUTION

1. New Japan Radio Co., Ltd. (NJR) strives to produce reliable and high quality microwave components. NJR's microwave components are intended for specific applications and require proper maintenance and handling. To enhance the performance and service of NJR's microwave components, the devices, machinery or equipment into which they are integrated should undergo preventative maintenance and inspection at regularly scheduled intervals. Failure to properly maintain equipment and machinery incorporating these products can result in catastrophic system failures.
2. To ensure the highest levels of reliability, NJR products must always be properly handled. The introduction of external contaminants (e.g. dust, oil or cosmetics) can result in failures of microwave components.
3. NJR offers a variety of microwave components intended for particular applications. It is important that you select the proper component for your intended application. You may contact NJR's sales office or sales representatives, if you are uncertain about the products listed in the catalog and the specification sheets.
4. Special care is required in designing devices, machinery or equipment, which demand high levels of reliability. This is particularly important when designing critical components or systems whose foreseeable failure can result in situations that could adversely affect health or safety. In designing such critical devices, equipment or machinery, careful consideration should be given to, amongst other things, their safety design, fail-safe design, back-up and redundancy systems, and diffusion design.
5. The products listed in the catalog and specification sheets may not be appropriate for use in certain equipment where reliability is critical or where the products may be subjected to extreme conditions. You should consult our sales office or sales representatives before using the products in any of the following types of equipment.
 - * Aerospace Equipment
 - * Equipment Used in the Deep Sea
 - * Power Generator Control Equipment (nuclear, steam, hydraulic)
 - * Life Maintenance Medical Equipment
 - * Fire Alarm/Intruder Detector
 - * Vehicle Control Equipment (automobile, airplane, railroad, ship, etc.)
 - * Various Safety Equipment
6. NJR's products have been designed and tested to function within controlled environmental conditions. Do not use products under conditions that deviate from methods or applications specified in the catalog and specification sheets. Failure to employ NJR's products in the proper applications can lead to deterioration, destruction or failure of the products. NJR shall not be responsible for any bodily injury, fires or accidents, property damage or any consequential damages resulting from the misuse or misapplication of its products. PRODUCTS ARE SOLD WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
7. The product specifications and descriptions listed in the catalog and brochure are subject to change at any time, without notice.

New Japan Radio Co., Ltd. (NJR) was founded in 1959, as the progeny of Japan Radio Co., Ltd., and has emerged as pioneer in microwave and semiconductor technologies in Japan.

Since then, NJR has devoted their own technologies to develop the products.

Now, under the concept of " μ & μ " development which means the convergence of "Microelectronics" and "Microwave" to expand their technology, NJR sets to meet demands of the ubiquitous age.

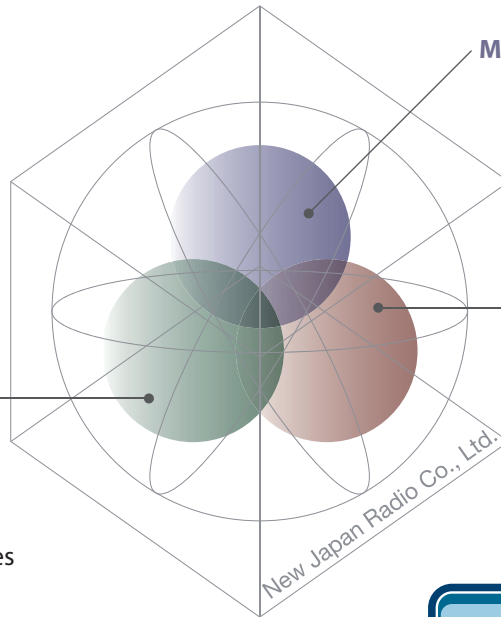
NJR has three business segments:

- Semiconductor devices
- Microwave application products
- Microwave tubes and radar components

Creating a future through the convergence of "Microelectronics" and "Microwave" (μ & μ)



- Semiconductor Devices**
- ◆ MOS ICs
 - ◆ Bipolar ICs
 - ◆ GaAs ICs
 - ◆ SAW Devices
 - ◆ Optoelectronic Devices
 - ◆ MEMS



Microwave Tubes and Radar Components

- ◆ Electron tubes and peripheral devices
- ◆ Electron guns and cathodes

Microwave Application Products

- ◆ Components for Satellite Communications
- ◆ Sensor components

Microwave Division is one of divisions engaged in NJR which has kept supplying reliable components, created through the concept of " μ & μ ", in microwave fields.

Components which Microwave Division has been supplying are as shown below.

- LNBS for VSAT
- BUCs and Transceiver for VSAT
- RF units for FWA/BWA
- Sensing devices for security, safety, saving energy, and etc (Doppler module and FMCW radar modules)
- Electron tubes and peripheral devices
- Electron guns and cathodes

Microwave Division will keep complying with any requirements to be brought from the market.

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

JRC *New Japan Radio Co., Ltd.*

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