

VSAT PRODUCT LINEUP 2022

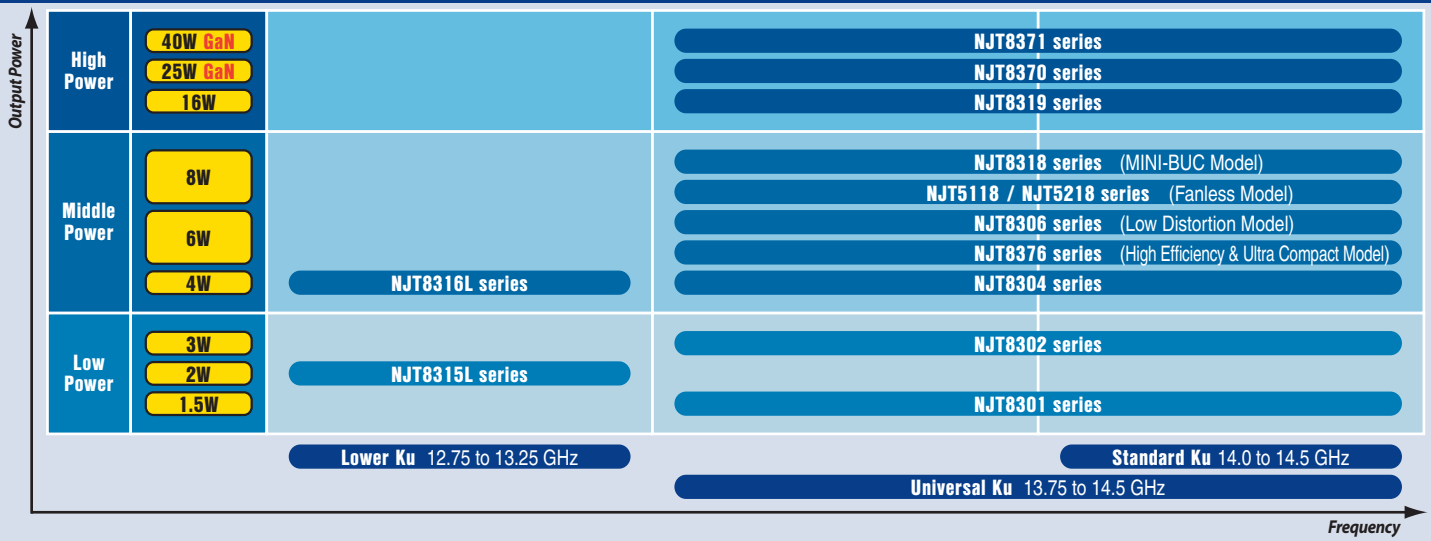


NSSHINBO



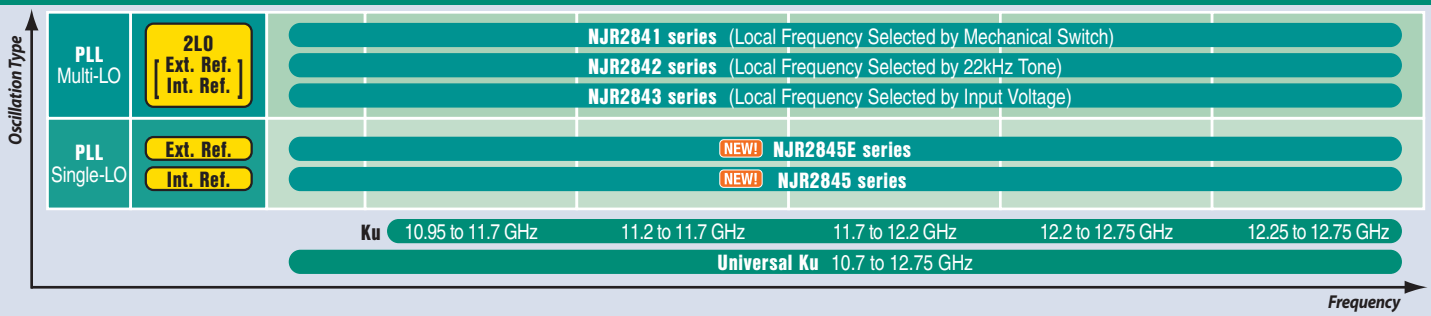
Ku-band BUC

P3 >



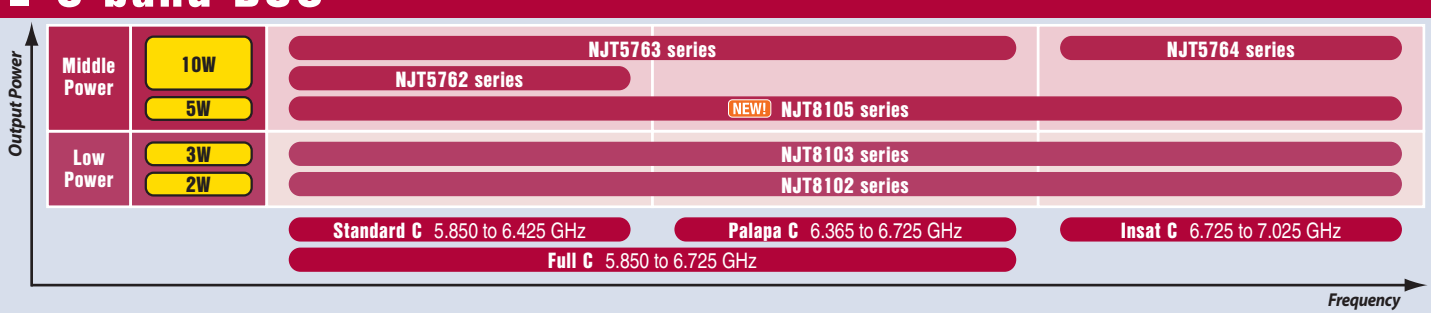
Ku-band LNB

P11 >



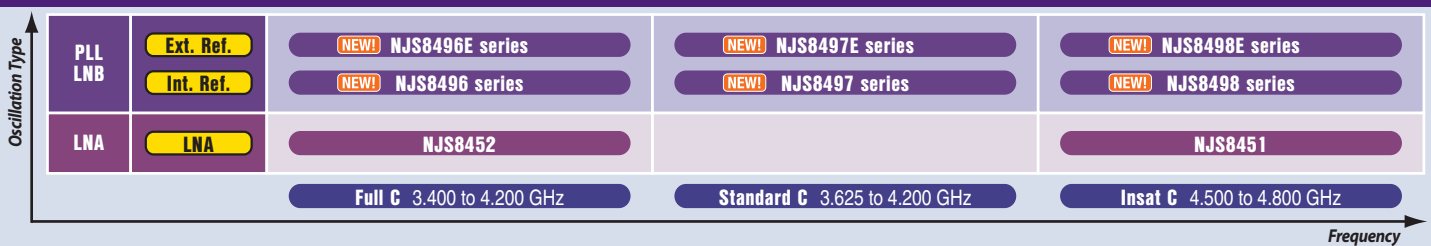
C-band BUC

P13 >

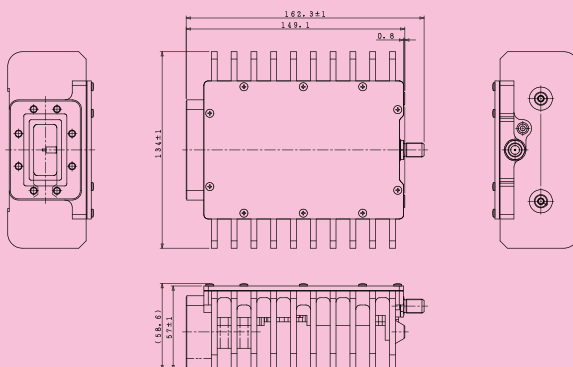


C-band LNA/LNB

P16 >



C-band 5W MINI-BUC: NJT8105 series



Products Information



➤ Various C-band Frequency Band

Insat C-band: 6.725 to 7.025 GHz
Full C-band: 5.85 to 6.725 GHz
Standard C-band: 5.85 to 6.425 GHz

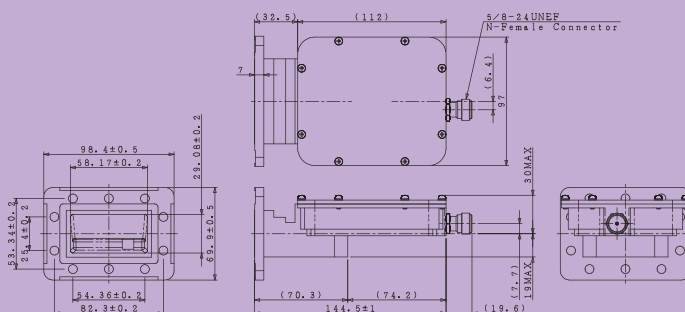
➤ Smaller Size & Lighter Weight

Dimension: 149.1 (L) x 134 (W) x 57 (H) mm
Weight: 1.37 kg

➤ High Efficiency Output Power

P1dB: +37 dBm min. over Temperature
ACPR: -26 dBc @ Pout ≤ +37 dBm
Power Consumption: 40 W

C-band PLL LNB: NJS8496 series



Products Information



➤ Various C-band Frequency Band

3.4 to 4.2 GHz / 3.625 to 4.2 GHz / 4.5 to 4.8 GHz

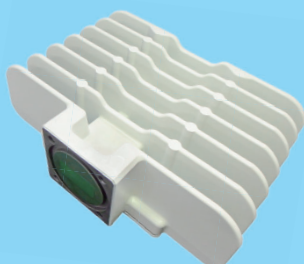
➤ Low Noise Performance

Noise Temperature(NT): 15 K typ., 30 K max.

➤ Small Size & Light Weight

Dimension: 144.5 (L) x 98.4 (W) x 69.9 (H) mm
Weight: 670 g

High Efficiency & Ultra Compact Ku-band 6W BUC: NJT8376 series



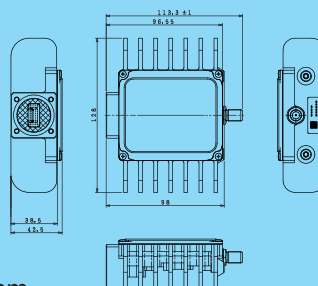
➤ Good Linearity; Installed GaAs Based FET Supporting Amplitude Modulation

➤ High Efficiency Output Power

P1dB: +37.8 dBm over Temperature
ACPR: -26 dBc @ Pout = +37 dBm
Power Consumption: 34 W

➤ Compact Size & Light Weight

Dimension: 98 (L) x 128 (W) x 42.5 (H) mm
Weight: 540 g



Products Information



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	NA	DC Power	Equipped
NJT8371UFMK					F-type	Communications	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8371UNMKA					N-type	M&C		DC Power	
NJT8371UFMKA					F-type	*Note1	Enclosed *Note3 Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU	
NJT8371UNMR					N-type	RS-232C	NA	DC Power	
NJT8371UFMR					F-type	Interface	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8371UNMRA	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	M&C		DC Power	
NJT8371UFMRA					F-type	*Note2	Enclosed *Note3 Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU	
NJT8371NMK					N-type	FSK	NA	DC Power	
NJT8371FMK					F-type	Communications	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8371NMKA					N-type	M&C		DC Power	
NJT8371FMKA					F-type	*Note1	Enclosed *Note3 Outdoor AC/DC PSU	Supplied by Outdoor AC/DC PSU	
NJT8371NMR					N-type	RS-232C	NA	DC Power	
NJT8371FMR					F-type	Interface	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8371NMRA					N-type	M&C		DC Power	
NJT8371FMRA					F-type	*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 "ACCESSORIES".



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

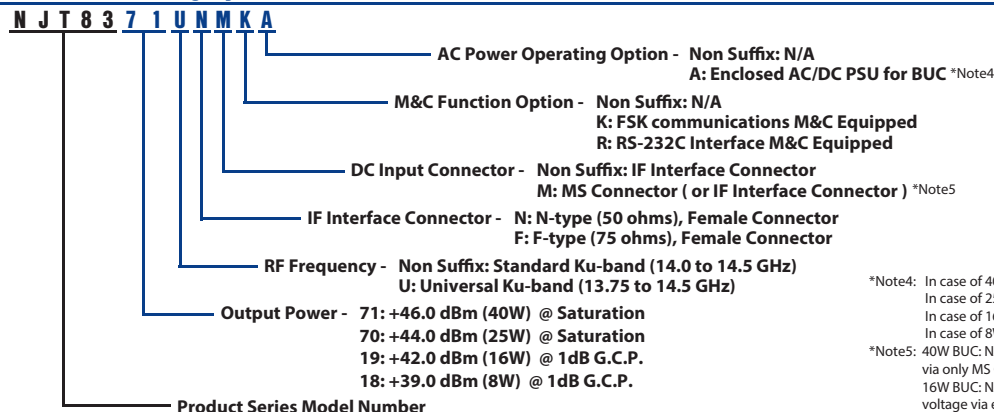
Products Information



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 / 71UNMK / 71UFMK / 71UNMR / 71UFMR
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 / 71UNMK / 71UFMK / 71UNMR / 71UFMR
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



*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	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8370UNMKA					N-type	M&C *Note1		DC Power	
NJT8370UFMKA					F-type			Supplied by Outdoor AC/DC PSU	
NJT8370UNMR					N-type	RS-232C	NA	DC Power	
NJT8370UFMR					F-type	Interface	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8370UNMRA	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	M&C *Note2		DC Power	
NJT8370UFMRA					F-type			Supplied by Outdoor AC/DC PSU	
NJT8370NMK					N-type	FSK	NA	DC Power	
NJT8370FMK					F-type	Communications	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8370NMKA					N-type	M&C *Note1		DC Power	
NJT8370UFMKA					F-type			Supplied by Outdoor AC/DC PSU	
NJT8370UNMR					N-type	RS-232C	NA	DC Power	
NJT8370UFMR					F-type	Interface	Enclosed *Note3 Outdoor AC/DC PSU	Input Port: MS Connector	
NJT8370UNMRA					N-type	M&C *Note2		DC Power	
NJT8370FMRA					F-type			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 "ACCESSORIES".



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

Products Information



■ 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 : NJT8371NMK / 71FMK / 71NMR / 71FMR / 71UNMK / 71UFMK / 71UNMR / 71UFMR 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	Equipped
NJT8319UF					F-type			Input Port: IF Connector	
NJT8319UNM					N-type			DC Power	
NJT8319UFM					F-type			Input Port: MS or IF Connector	
NJT8319UNMA					N-type	FSK Communications M&C *Note1	Enclosed *Note3 Outdoor AC/DC PSU	DC Power	
NJT8319UFMA					F-type			Supplied by Outdoor AC/DC PSU	
NJT8319UNK					N-type			DC Power	
NJT8319UFK					F-type			Input Port: IF Connector	
NJT8319UNMK					N-type	RS-232C Interface M&C *Note2	Enclosed *Note3 Outdoor AC/DC PSU	DC Power	
NJT8319UFMK					F-type			Input Port: MS or IF Connector	
NJT8319UNMKA					N-type			DC Power	
NJT8319UFMKA					F-type			Supplied by Outdoor AC/DC PSU	
NJT8319UNMR	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	NA	NA	DC Power	
NJT8319F					F-type			Input Port: IF Connector	
NJT8319NM					N-type			DC Power	
NJT8319FM					F-type			Input Port: MS or IF Connector	
NJT8319NMA					N-type	FSK Communications M&C *Note1	Enclosed *Note3 Outdoor AC/DC PSU	DC Power	
NJT8319FMA					F-type			Supplied by Outdoor AC/DC PSU	
NJT8319NK					N-type			DC Power	
NJT8319FK					F-type			Input Port: IF Connector	
NJT8319NMK					N-type	RS-232C Interface M&C *Note2	Enclosed *Note3 Outdoor AC/DC PSU	DC Power	
NJT8319UFMK					F-type			Input Port: MS or IF Connector	
NJT8319NMKA					N-type			DC Power	
NJT8319FMKA					F-type			Supplied by Outdoor AC/DC PSU	
NJT8319NMR					N-type	NA	NA	DC Power	
NJT8319FMR					F-type			Input Port: MS or IF Connector	
NJT8319NMRA					N-type			DC Power	
NJT8319FMRA					F-type			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 "ACCESSORIES".



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

Products Information



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 *Note6	Same as IF Connector : NJT8319N / 19F / 19NK / 19FK / 19UN / 19UF / 19UNK / 19UFK MS Connector : NJT8319NM / 19FM / 19NMK / 19FMK / 19NMRA / 19FMR / 19UNM / 19UFM / 19UNMK / 19UFMK / 19UNMR / 19UFMR IF Connector supplied by Outdoor AC/DC PSU through IF Cable : 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 +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 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]

*Note6: 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	Equipped
NJT8318UF					F-type			Input Port: IF Connector	
NJT8318UNM					N-type			DC Power	
NJT8318UFM					F-type			Input Port: MS or IF Connector	
NJT8318UNA					N-type	FSK Communications M&C *Note1	Enclosed *Note3 Indoor AC/DC PSU	DC Power	
NJT8318UFA					F-type			Supplied by Indoor AC/DC PSU	
NJT8318UNK					N-type		NA	DC Power	
NJT8318UFK					F-type			Input Port: IF Connector	
NJT8318UNMK					N-type			DC Power	
NJT8318UFMK					F-type			Input Port: MS or IF Connector	
NJT8318UNMR					N-type	RS-232C Interface M&C *Note2	Enclosed *Note3 Indoor AC/DC PSU	DC Power	
NJT8318UFMR					F-type			Input Port: MS or IF Connector	
NJT8318UNMRA					N-type	NA	Enclosed *Note3 Indoor AC/DC PSU	DC Power	
NJT8318UFMRA					F-type			Supplied by Indoor AC/DC PSU	
NJT8318N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	NA	NA	DC Power	
NJT8318F					F-type			Input Port: IF Connector	
NJT8318NM					N-type		Enclosed *Note3 Indoor AC/DC PSU	DC Power	
NJT8318FM					F-type			Input Port: MS or IF Connector	
NJT8318NA					N-type	FSK Communications M&C *Note1	NA	DC Power	
NJT8318FA					F-type			Supplied by Indoor AC/DC PSU	
NJT8318NK					N-type		NA	DC Power	
NJT8318FK					F-type			Input Port: IF Connector	
NJT8318NMK					N-type			DC Power	
NJT8318FMK					F-type			Input Port: MS or IF Connector	
NJT8318NMR					N-type	RS-232C Interface M&C *Note2	Enclosed *Note3 Indoor AC/DC PSU	DC Power	
NJT8318FMR					F-type			Input Port: MS or IF Connector	
NJT8318NMRA					N-type	NA	Enclosed *Note3 Indoor AC/DC PSU	DC Power	
NJT8318FMRA					F-type			Supplied by Indoor 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 "ACCESSORIES".



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

Products Information



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 *Note6	Same as IF Connector : NJT8318NA / 18FA / 18NMRA / 18FMRA / 18UNA / 18UFA / 18UNMRA / 18UFMRA 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 +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	2.4 kg [5.3 lbs]

*Note6: 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		DC Power	
NJT5218FA					F-type	Enclosed *Note3 Indoor AC/DC PSU	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		DC Power	
NJT5118FA					F-type	Enclosed *Note3 Indoor AC/DC PSU	Supplied by Indoor AC/DC PSU	

*Note3: The detail is shown in section of "ACCESSORIES".



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

Products Information



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 / Low Distortion Model



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

Products Information



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]

6W BUC : NJT8376 series / High Efficiency & Ultra Compact Model

UNIVERSAL KU-BAND



Standard Ku 6W: NJT8376 series
Universal Ku 6W: NJT8376U series

Products Information



Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8376UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz	+37.8 dBm min. (6W)	N-type	NA
NJT8376UF					F-type	
NJT8376N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type	
NJT8376F					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.	2.0 : 1 max. @ RF Frequency
Power Requirement	+12 to +30 VDC
Power Consumption	34 W typ., 38 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) 128 x (H) 42.5 mm [(L) 3.86" x (W) 5.04" x (H) 1.67"]
Weight	540 g [1.2 lbs]

4W BUC : NJT8304 & NJT8316L series

UNIVERSAL KU-BAND



Lower Ku 4W: NJT8316L series
Standard Ku 4W: NJT8304 series
Universal Ku 4W: NJT8304U series

Products Information

NJT8316L series



Products Information

NJT8304 series



Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8316LN	12.75 to 13.25 GHz (Lower Ku-band)	11.80 GHz	950 to 1,450 MHz	+36 dBm min. (4W)	N-type	NA
NJT8316LF					F-type	
NJT8304UN	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz		N-type	
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 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) 1.67"]
Weight	500 g [1.1 lbs]

3W / 2W / 1.5W BUC : NJT8301, NJT8302 & NJT8315L series

UNIVERSAL KU-BAND



Standard Ku 3W: NJT8302 series
Universal Ku 3W: NJT8302U series
Lower Ku 2W: NJT8315L series
Standard Ku 1.5W: NJT8301 series
Universal Ku 1.5W: NJT8301U series

Products Information NJT8302 series



Products Information NJT8315L series



Products Information NJT8301 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	

2W BUC: NJT8315L series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	LED Indicator
NJT8315LN	12.75 to 13.25 GHz (Lower Ku-band)	11.80 GHz	950 to 1,450 MHz	+33 dBm min. (2W)	N-type	NA
NJT8315LF					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 +33.0 dBm min. over temperature : (2W) NJT8315L series +31.0 dBm min. over temperature : (1.5W) NJT8301 series
Conversion Gain	58 dB typ., 51 dB min. : (3W) NJT8302 series 59 dB nom., 53 dB min. : (2W) NJT8315L 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 -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	+12 to +30 VDC
Power Consumption	18 W typ., 23 W max. : (3W) NJT8302 series 18 W typ., 22 W max. : (2W) NJT8315L series 12 W typ., 14 W max. : (1.5W) NJT8301 series
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +75 °C : NJT8315L series Operating : -40 to +55 °C Storage : -40 to +75 °C : NJT8302 / NJT8301 series
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 7 6 U N

IF Interface Connector - N: N-type (50 ohms), Female Connector
F: F-type (75 ohms), Female Connector

RF Frequency - Non Suffix: Standard Ku-band (14.0 to 14.5 GHz)
U: Universal Ku-band (13.75 to 14.5 GHz)
L: Lower Ku-band (12.75 to 13.25 GHz)

Output Power - 76: +37.8 dBm (6W) @ 1dB G.C.P., High Efficiency & Ultra Compact Model
06: +37.8 dBm (6W) @ 1dB G.C.P., Low Distortion Model
04: +36.0 dBm (4W) @ 1dB G.C.P.
16: +36.0 dBm (4W) @ 1dB G.C.P., ONLY for Lower Ku-band
02: +34.0 dBm (3W) @ 1dB G.C.P.
15: +33.0 dBm (2W) @ 1dB G.C.P., ONLY for Lower Ku-band
01: +31.0 dBm (1.5W) @ 1dB G.C.P.

Product Series Model Number

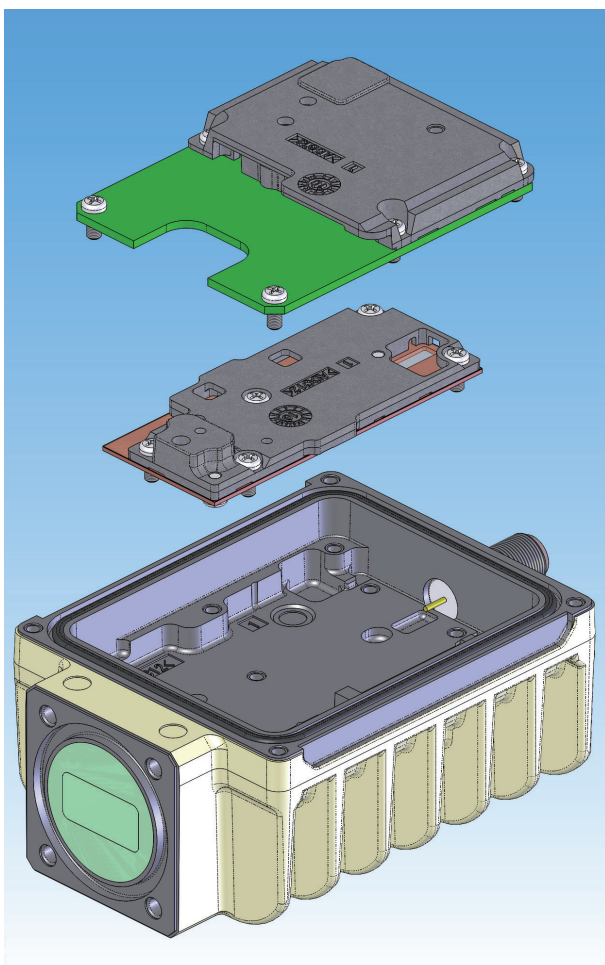
Ku-band Bare-Die-Module BUC

Feature

Miniaturization and stable characteristics by the following advantage technologies

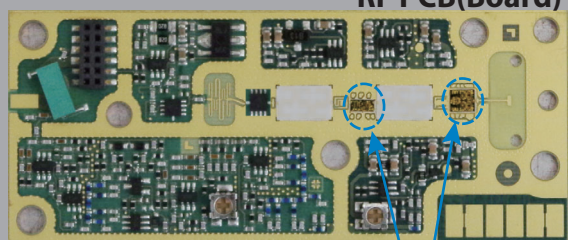
Advantage

- 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 COMPACT-BUC : NJT8376

● High Temperature Operating

Operation Temp. Range: -40 to +60 °C

● High Efficiency & Low Distortion

P1dB: +37.8 dBm over Temp.

ACPR: -26 dBc @ Pout = +37.0 dBm

Power Consumption: 34 W

● Compact Size & Light Weight

Weight: 540 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

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

Products Information



Internal Reference Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Frequency Selected by *Note7	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	F-type
NJR2841LN					(+/- 500 kHz typ.)	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		+/- 10 ppm	F-type
NJR2841HN					(+/- 100 kHz typ.)	N-type
NJR2841S					+/- 3 ppm	F-type
NJR2841SN					(+/- 30 kHz typ.)	N-type
NJR2842L				22kHz Tone	+/- 50 ppm	F-type
NJR2842LN					(+/- 500 kHz typ.)	N-type
NJR2842H					+/- 10 ppm	F-type
NJR2842HN					(+/- 100 kHz typ.)	N-type
NJR2842S					+/- 3 ppm	F-type
NJR2842SN					(+/- 30 kHz typ.)	N-type
NJR2843L				Input Voltage	+/- 50 ppm	F-type
NJR2843LN					(+/- 500 kHz typ.)	N-type
NJR2843H					+/- 10 ppm	F-type
NJR2843HN					(+/- 100 kHz typ.)	N-type
NJR2843S					+/- 3 ppm	F-type
NJR2843SN					(+/- 30 kHz typ.)	N-type

External Reference Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Frequency Selected by *Note7	Local Stability [-40 to +60 °C]	IF Connector
NJR2841E	Low Band:	Low Band:	Low Band:	Mechanical	Depends on External Reference	F-type
NJR2841EN	10.70 to 11.70 GHz	9.75 GHz	950 to 1,950 MHz	Switch		N-type
NJR2842E	High Band:	High Band:	High Band:	22kHz Tone		F-type
NJR2842EN	11.70 to 12.75 GHz	10.60 GHz	1,100 to 2,150 MHz	Input Voltage		N-type
NJR2843E	(Universal Ku-band)					F-type
NJR2843EN						N-type

*Note7: 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) 82.2 x (W) 40 x (H) 40 mm [(L) 3.24" 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

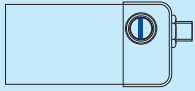
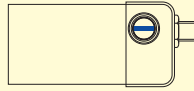
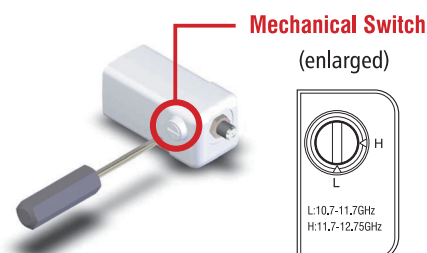
	RF Frequency	
	Low Band (10.7 to 11.7 GHz)	High Band (11.7 to 12.75 GHz)
Mechanical Switch	Initial Set 	
22kHz Tone On/Off	Tone Level: 0 to 0.2 Vp-p	Tone Level: 0.4 to 0.8 Vp-p
Input Voltage High/Low	Voltage: +10 to +14 VDC	Voltage: +15.5 to +24 VDC

Image of Mechanical Switch



Applicable Models: NJR2841, NJR2842 and NJR2843 series

PLL LNB [Internal & External Reference Type] : NJR2845 & NJR2845E series



NEW Ku PLL (Int): NJR2845 series
NEW Ku PLL (Ext): NJR2845E series

Products Information NJR2845 series



Products Information NJR2845E series



Internal Reference Type: NJR2845 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJR2845AL*	10.95 to 11.70 GHz	10.00 GHz	950 to 1,700 MHz	+/- 50 ppm (+/- 500 kHz typ.)	F-type / N-type *Note8
NJR2845AH*				+/- 10 ppm (+/- 100 kHz typ.)	
NJR2845AS*				+/- 3 ppm (+/- 30 kHz typ.)	
NJR2845AU*				+/- 1 ppm (+/- 10 kHz typ.)	
NJR2845AV*				+/- 0.5 ppm (+/- 5 kHz typ.)	
NJR2845DL*	11.20 to 11.70 GHz	10.25 GHz	950 to 1,450 MHz	+/- 50 ppm (+/- 500 kHz typ.)	
NJR2845DH*				+/- 10 ppm (+/- 100 kHz typ.)	
NJR2845DS*				+/- 3 ppm (+/- 30 kHz typ.)	
NJR2845DU*				+/- 1 ppm (+/- 10 kHz typ.)	
NJR2845DV*				+/- 0.5 ppm (+/- 5 kHz typ.)	
NJR2845BL*	11.70 to 12.20 GHz	10.75 GHz	950 to 1,450 MHz	+/- 50 ppm (+/- 500 kHz typ.)	
NJR2845BH*				+/- 10 ppm (+/- 100 kHz typ.)	
NJR2845BS*				+/- 3 ppm (+/- 30 kHz typ.)	
NJR2845BU*				+/- 1 ppm (+/- 10 kHz typ.)	
NJR2845BV*				+/- 0.5 ppm (+/- 5 kHz typ.)	
NJR2845CL*	12.25 to 12.75 GHz	11.30 GHz	950 to 1,450 MHz	+/- 50 ppm (+/- 500 kHz typ.)	
NJR2845CH*				+/- 10 ppm (+/- 100 kHz typ.)	
NJR2845CS*				+/- 3 ppm (+/- 30 kHz typ.)	
NJR2845CU*				+/- 1 ppm (+/- 10 kHz typ.)	
NJR2845CV*				+/- 0.5 ppm (+/- 5 kHz typ.)	

Note8: Specify by "" in Model No.
N: N-type
F: F-type

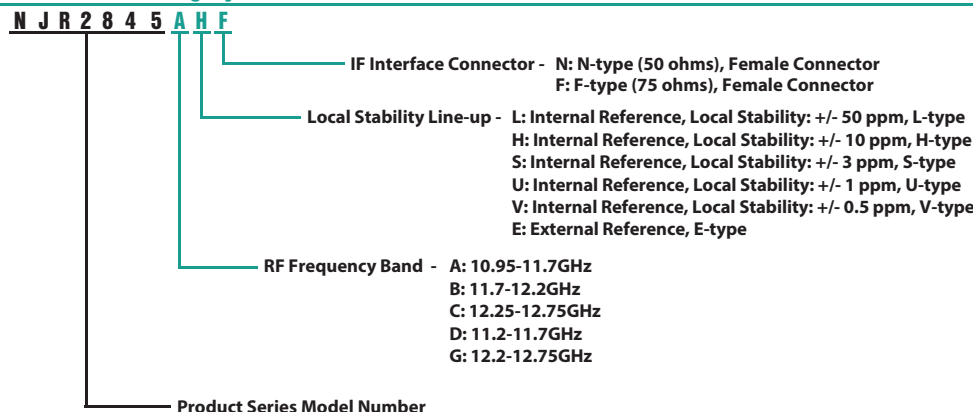
External Reference Type: NJR2845E series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJR2845AEF	10.95 to 11.70 GHz	10.00 GHz	950 to 1,700 MHz	Depends on External Reference	F-type
NJR2845AEN	11.20 to 11.70 GHz	10.25 GHz	950 to 1,450 MHz		N-type
NJR2845DEF					F-type
NJR2845DEN	N-type				
NJR2845BEF	11.70 to 12.20 GHz	10.75 GHz	950 to 1,450 MHz		F-type
NJR2845BEN	12.20 to 12.75 GHz	11.25 GHz	950 to 1,500 MHz		N-type
NJR2845GEF					F-type
NJR2845GEN	N-type				
NJR2845CEF	12.25 to 12.75 GHz	11.30 GHz	950 to 1,450 MHz		F-type
NJR2845CEN					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 typ., 1.0 dB max.
Conversion Gain (at +25 °C)	52 dB min., 57 dB typ.
Requirement External Reference Signal (Only NJR2845E 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: -125 dBc/Hz max. @100Hz -135 dBc/Hz max. @1kHz -140 dBc/Hz max. @10kHz
Phase Noise (SSB)	-50 dBc/Hz typ. @ 100 Hz -70 dBc/Hz typ. @ 1 kHz -75 dBc/Hz typ. @ 10 kHz -85 dBc/Hz typ. @ 100 kHz -105 dBc /Hz typ. @ 1 MHz * In case of E-type, depend on External Reference
Power Requirement	+10 to +24 VDC
Operating Current	L/H/S/U/V-type: 170 mA max. E-type: 200 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) 82.2 x (W) 40 x (H) 40 mm [3.24" (L) x 1.57" (W) x 1.57" (H)]
Weight	F-type: 210 g [0.46 lbs] N-type: 240 g [0.53 lbs]

Model Numbering System



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
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		
NJT5763NMD					N-type		Floating DC Power: -48/+48V		
NJT5763FMD					F-type		Input Port: MS Connector		
NJT5763NA					N-type		DC Power		
NJT5763FA					F-type	Enclosed *Note3 Indoor AC/DC PSU	Input Port: MS Connector		
NJT5762N	5.850 to 6.425 GHz (Standard C-band)		950 to 1,525 MHz		N-type	NA	DC Power		
NJT5762F					F-type		Input Port: IF Connector		
NJT5762NM					N-type		DC Power		
NJT5762FM					F-type		Input Port: MS Connector		
NJT5762NMD					N-type		Floating DC Power: -48/+48V		
NJT5762FMD					F-type		Input Port: MS Connector		
NJT5762NA					N-type		DC Power		
NJT5762FA					F-type	Enclosed *Note3 Indoor AC/DC PSU	Supplied by Indoor AC/DC PSU		
NJT5762KN					N-type	NA	DC Power	FSK Communications M&C *Note1	
NJT5762KF					F-type		Input Port: IF Connector		
NJT5762KNM					N-type		DC Power		
NJT5762KFM					F-type		Input Port: MS Connector		
NJT5764N	6.725 to 7.025 GHz (Insat C-band)	5.76 GHz	965 to 1,265 MHz		N-type		DC Power	NA	
NJT5764F					F-type		Input Port: IF Connector		
NJT5764NM					N-type		DC Power		
NJT5764FM					F-type		Input Port: MS Connector		
NJT5764NMD					N-type		Floating DC Power: -48/+48V		
NJT5764FMD					F-type		Input Port: MS Connector		
NJT5764NA					N-type		DC Power		
NJT5764FA					F-type	Enclosed *Note3 Indoor AC/DC PSU	Supplied by Indoor AC/DC PSU		

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

*Note3: The detail is shown in section of "ACCESSORIES".



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

Products Information



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
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 (Floating DC Power Option) +48 / -48 VDC (38 to 55 VDC) (AC Power Option) 90 to 264 VAC at Indoor AC/DC PSU
Power Consumption	69 W typ., 75 W max. : (Standard C-band) NJT5762 series 75 W typ., 85 W max. : (Full C-band) NJT5763 series 73 W typ., 80 W max. : (Insat C-band) NJT5764 series
Port for Voltage Input	Same as IF Connector : NJT5762N / 62F / 62KN / 62KF / 63N / 63F / 64N / 64F MS Connector : NJT5762NM / 62FM / 62KNM / 62KFM / 63NM / 63FM / 64NM / 64FM 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 MINI-BUC : NJT8105 series

FULL C-BAND



NEW Full C 5W: NJT8105W series

NEW Standard C 5W: NJT8105 series

NEW Insat C 5W: NJT8105E series

Products Information



5W BUC: NJT8105 series

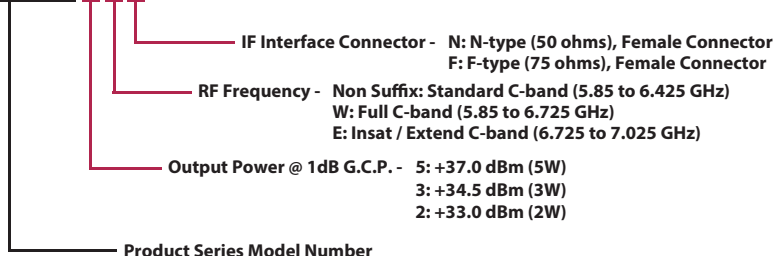
Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB (5W)	IF Connector	LED Indicator
NJT8105WN	5.850 to 6.725 GHz (Full C-band)	4.90 GHz	950 to 1,825 MHz		N-type	Equipped
NJT8105WF					F-type	
NJT8105N	5.850 to 6.425 GHz (Standard C-band)		950 to 1,525 MHz		N-type	
NJT8105F					F-type	
NJT8105EN	6.725 to 7.025 GHz (Insat C-band)	5.76 GHz	965 to 1,265 MHz		N-type	
NJT8105EF					F-type	

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 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: -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 / Output V.S.W.R.	2.0 : 1 max. @ IF Frequency 2.0 : 1 max. @ RF Frequency
Power Requirement	+12 to +30 VDC
Power Consumption	40 W typ., 44 W max.
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +75 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension	(L) 149.1 x (W) 134 x (H) 57 mm
(without Interface Connector)	[(L) 5.87" x (W) 5.28" x (H) 2.24"]
Weight	1.37 kg [3 lbs]

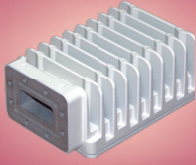
Model Numbering System

N J T 8 1 0 5 W N



3W / 2W BUC : NJT8102 & NJT8103 series

FULL C-BAND



Full C 3W: NJT8103W series
Standard C 3W: NJT8103 series
Insat C 3W: NJT8103E series
Full C 2W: NJT8102W series
Standard C 2W: NJT8102 series
Insat C 2W: NJT8102E series

Products Information NJT8103 series



Products Information NJT8102 series



3W BUC: NJT8103 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB (3W)	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)		950 to 1,525 MHz		N-type	
NJT8103F					F-type	
NJT8103EN	6.725 to 7.025 GHz (Insat C-band)	5.76 GHz	965 to 1,265 MHz		N-type	
NJT8103EF					F-type	

2W BUC: NJT8102 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB (2W)	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)		950 to 1,525 MHz		N-type	
NJT8102F					F-type	
NJT8102EN	6.725 to 7.025 GHz (Insat C-band)	5.76 GHz	965 to 1,265 MHz		N-type	
NJT8102EF					F-type	

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.	+34.5 dBm min. over temperature : (3W) NJT8103 series +33.0 dBm min. over temperature : (2W) NJT8102 series
Conversion Gain	59 dB nom., 53 dB min. : (3W) NJT8103 series 58 dB nom., 52 dB min. : (2W) NJT8102 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 / Output V.S.W.R.	2.0 : 1 max. @ IF Frequency 2.0 : 1 max. @ RF Frequency
Power Requirement	+12 to +30 VDC
Power Consumption	21 W typ., 25 W max. : (3W) NJT8103 series 18 W typ., 22 W max. : (2W) NJT8102 series
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +75 °C
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"]
Weight	800 g [1.8 lbs]

■ PLL LNB [Internal & External Reference Type] : NJS8496, NJS8497 & NJS8498 series



NEW C PLL (Int): NJS8496 series
NEW C PLL (Ext): NJS8496E series

Products Information



● Internal Reference Type: NJS8496 series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJS8496HF	3.400 to 4.200 GHz (Full C-band)	5.15 GHz	950 to 1,750 MHz	+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8496HN				+/- 3 ppm (+/- 15 kHz typ.)	N-type
NJS8496SF				+/- 1 ppm (+/- 5 kHz typ.)	F-type
NJS8496SN				+/- 0.3 ppm (+/- 1.5 kHz typ.)	N-type
NJS8496UF				+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8496VN				+/- 3 ppm (+/- 15 kHz typ.)	N-type
NJS8497HF	3.625 to 4.200 GHz (Standard C-band)	5.15 GHz	950 to 1,525 MHz	+/- 1 ppm (+/- 5 kHz typ.)	F-type
NJS8497HN				+/- 0.3 ppm (+/- 1.5 kHz typ.)	N-type
NJS8497SF				+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8497SN				+/- 3 ppm (+/- 15 kHz typ.)	N-type
NJS8497UF				+/- 1 ppm (+/- 5 kHz typ.)	F-type
NJS8497VN				+/- 0.3 ppm (+/- 1.5 kHz typ.)	N-type
NJS8498HF	4.500 to 4.800 GHz (Insat C-band)	5.76 GHz	960 to 1,260 MHz	+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8498HN				+/- 3 ppm (+/- 15 kHz typ.)	N-type
NJS8498SF				+/- 1 ppm (+/- 5 kHz typ.)	F-type
NJS8498SN				+/- 0.3 ppm (+/- 1.5 kHz typ.)	N-type
NJS8498UF				+/- 10 ppm (+/- 50 kHz typ.)	F-type
NJS8498VN				+/- 3 ppm (+/- 15 kHz typ.)	N-type

● External Reference Type: NJS8496E series

Model No.	RF Frequency	Local Frequency	IF Frequency	Local Stability [-40 to +60 °C]	IF Connector
NJS8496EF	3.400 to 4.200 GHz (Full C-band)	5.15 GHz	950 to 1,750 MHz	Depend on External Reference	F-type
NJS8496EN					N-type
NJS8497EF	3.625 to 4.200 GHz (Standard C-band)	5.15 GHz	950 to 1,525 MHz		F-type
NJS8497EN					N-type
NJS8498EF	4.500 to 4.800 GHz (Insat C-band)	5.76 GHz	960 to 1,260 MHz		F-type
NJS8498EN					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 typ., 30 K max.
Conversion Gain (at +25 °C)	59 dB min., 67 dB max.
Requirement External Reference Signal (Only NJS8496E 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)	-70 dBc/Hz typ., -59 dBc/Hz max. @100 Hz -80 dBc/Hz typ., -75 dBc/Hz max. @1 kHz -90 dBc/Hz typ., -85 dBc/Hz max. @10 kHz -100 dBc/Hz typ., -95 dBc/Hz max. @100 kHz -110 dBc/Hz typ., -105 dBc/Hz max. @100 kHz * In case of E-type, depend on External Reference
Power Requirement	+12 to +24 VDC
Operating Current	350 mA
Temperature Range (ambient)	Operating : -40 to +60 °C Storage : -40 to +80 °C
Waterproof / Dustproof (IP Code)	IP 67
Dimension (without Interface Connector)	(L) 144.5 x (W) 98.4 x (H) 69.9 mm [(L) 5.68" x (W) 3.87" x (H) 2.75"]
Weight	670 g [1.47 lbs]



LNA: NJS8451 & NJS8452

Products Information



■ LNA : NJS8451 & NJS8452

Model No.	RF Frequency
NJS8452	3.400 to 4.200 GHz (Full 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. : (Full 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]



ACCESSORIES

AC/DC PSU

Model No.	Description
NJZ1286F	INDOOR 150W AC/DC Power Supply Unit (PSU) This PSU is having enough power supply of 150W and to provide the stable +48V DC power enable to operate C-band 10W or Ku-band 8W BUC as well as having the bias-tee which enable to pass 10MHz reference signal and IF signal from the modem. Applicable Models : NJT5118, NJT5218, NJT5762, NJT5763, NJT5764, and NJT8318 series
NJZ1286N	
NJZ1289	OUTDOOR 250W AC/DC Power Supply Unit (PSU) This PSU is to provide the stable +48V/250W DC power enable to operate Ku-band 16W/25W BUC and is structured with the waterproof aluminum enclosure in order to use perfectly as the outdoor unit. Applicable Models : NJT8319 and NJT8370 series
NJZ1295	OUTDOOR 500W AC/DC Power Supply Unit (PSU) This PSU is to provide the stable +51V/500W DC power enable to operate Ku-band 40W BUC and is structured with the waterproof aluminum enclosure in order to use perfectly as the outdoor unit. Applicable Models : NJT8371 series

Products Information



Products Information



Products Information



Mount Bracket Option

Model No.	Description
NJZ1290D01	Mount Bracket for NJT8318 [Ku-band 8W BUC]
	Mount Bracket for NJT8319 [Ku-band 16W BUC]
	Mount Bracket for NJT8370 [Ku-band GaN 25W BUC]
NJZ1290D05	Mount Bracket for NJT8371 [Ku-band GaN 40W BUC]
NJZ1290D02	Mount Bracket for NJZ1289 [Outdoor 250W AC/DC PSU]
NJZ1290D04	Mount Bracket for NJZ1295 [Outdoor 500W AC/DC PSU]

Products Information



Cable Option

Model No.	Description
NJZ1290A01	AC Power Cable of 3 m length for NJZ1289 [Outdoor 250W AC/DC PSU] Connecting between NJZ1289 and AC outlet
NJZ1290A02	DC Power Cable of 5 m length for NJZ1289 [Outdoor 250W AC/DC PSU] Connecting between NJZ1289 and BUC
NJZ1290A03	AC Power Cable of 3 m length for NJZ1295 [Outdoor 500W AC/DC PSU] Connecting between NJZ1295 and AC outlet
NJZ1290A04	DC Power Cable of 5 m length for NJZ1295 [Outdoor 500W AC/DC PSU] Connecting between NJZ1295 and BUC

Products Information



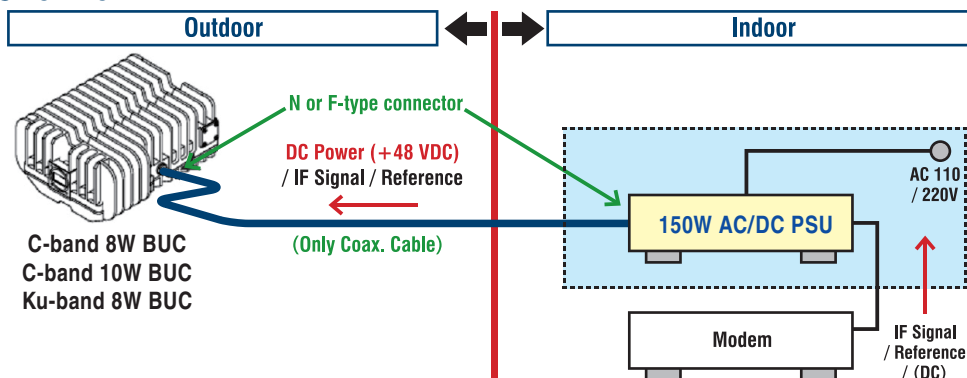
INDOOR 150W AC/DC PSU : NJZ1286F / NJZ1286N



Indoor 150W AC/DC PSU



Overview



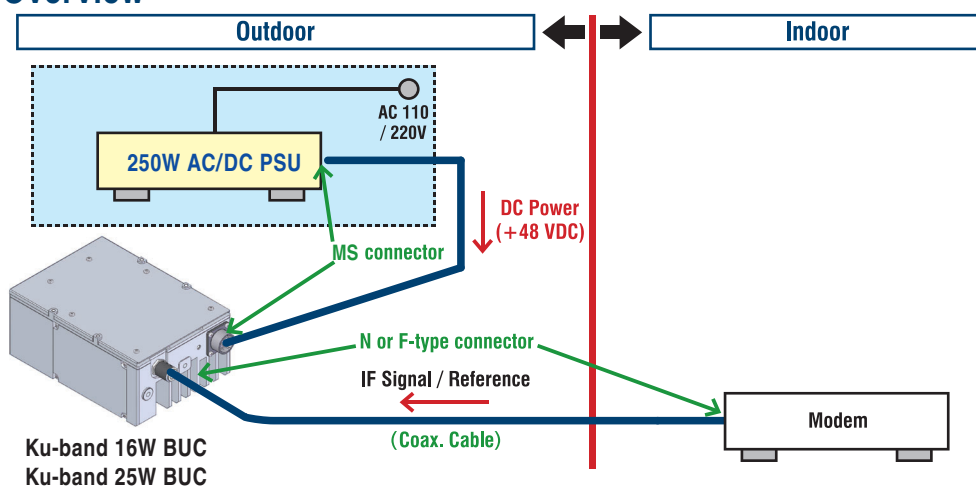
OUTDOOR 250W AC/DC PSU : NJZ1289



Outdoor 250W AC/DC PSU



Overview



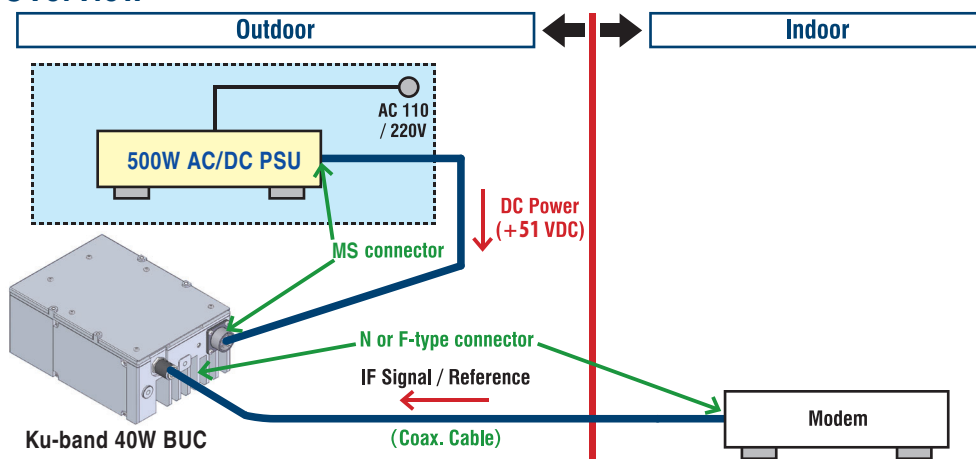
OUTDOOR 500W AC/DC PSU : NJZ1295



Outdoor 500W AC/DC PSU



Overview





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.

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.

PRODUCT LABEL

The common product label with following format is employed for both of all LNBS and BUCs manufactured by Nissinbo Micro Devices Inc.

Label Format:

Product Name
Model Number
Model Number Bar-code [CODE 39]

WEEE Logo
RoHS Compliant
CE Marking

(for Example as Ku-band BUC)

Ku-BAND 8W BUC
MODEL : NJT5118F

INPUT 14.0-14.5 GHz
LOCAL 13.05 GHz

S/N: A00001A02

DC INPUT +18V to +60V
IF/Ref. INPUT +13dBm max.

MADE IN JAPAN

RF Frequency
Local Frequency

Serial Number
Serial Number Bar-code [CODE 39]

DANGER:
* High Temperature

CAUTION:
* DC Input Voltage Range
* Maximum IF/Ref. Input Level

Applicable Models: All models of LNB and BUC



DECLARATION OF EC DIRECTIVE

Nisshinbo Micro Devices Inc. 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, (EU)2015/863.



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

LED INDICATOR

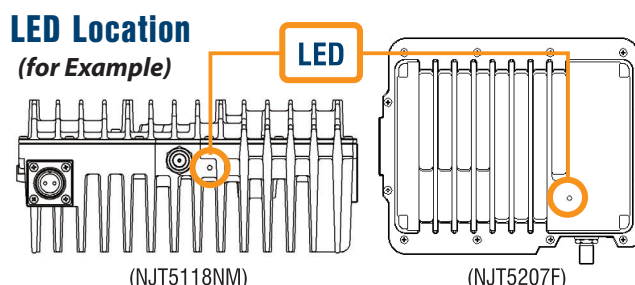
BUC products integrated with LED Indicator show normal or abnormal conditions.

Status Chart

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

Applicable Models: Specified BUCs

LED Location (for Example)



FSK COMMUNICATIONS M&C

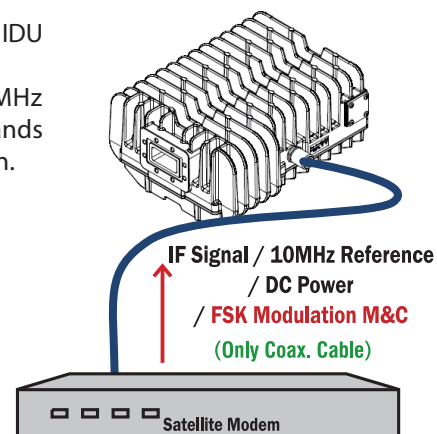
The BUC equipped FSK communications M&C includes capability to communicate with a IDU (e.g. satellite modem or M&C controller).

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
● Request Status ● Set Transmit On/Off Control	● Output Power Monitor * Detector Range: 20 dB (up to P1dB) * Accuracy: +/- 1.0 dB ● Temperature Monitor etc

Applicable Models: NJT5762, 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
● Request Status ● Transmit On/Off Control ● Step Attenuator Setting * Attenuator Range: 0 to 15.5 dB * Attenuator Step: 0.5 dB	● Output Power Monitor * Detector Range: 15 dB (up to P1dB/Psat) * Accuracy: +/- 1.0 dB ● Temperature Monitor ● Status * Temperature Out-of-Range * PLL Out-of-Lock * Tx Status - etc

Applicable Models: NJT8318, NJT8319, NJT8370 and NJT8371 series



CSR VISION

Nisshinbo Micro Devices Inc. group's corporate social responsibility is "To realize the corporate mission while continuing to contribute to the healthy development of society." To this end, we are committed to:

- Being aware that we are a part of society.
- Considering at all times what can be done to make society develop and to create better lifestyles for people by providing optimum components based on the technologies of "Microelectronics" and "Microwave".
- Striving to develop relationships of trust, and meeting the expectations of the community and stakeholders.
- Contributing to the realization of a sustainable society

QUALITY & ENVIRONMENTAL MANAGEMENT

Nisshinbo Micro Devices Inc. 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 Nisshinbo Micro Devices Inc. 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 VISION

Nisshinbo Micro Devices Inc. Group provides products and services meeting quality expectations of society and customers by ingenious technologies and originality of all the members.

ENVIRONMENTAL VISION

Nisshinbo Micro Devices Inc. Group recognizes that protecting the global environment is a significant universal subject to ensure sustainable growth and is corporate social responsibility, and we act based on considering the environmental protection in all of corporate activity.

QUALITY & ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION

ISO 9001 : 2015

Registration Date: November 25, 1994
Last Renewal Date: January 10, 2021
Expiry Date: January 9, 2024
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, 2021
Expiry Date: January 12, 2024
Certification Number: JQA-EM4431
Certification Organization JQA



GENERAL CAUTION

1. While Nisshinbo Micro Devices Inc., continually strives to improve the quality and reliability of any products, failures would occur in microwave products over time. For this reason, it is important that customers fulfill their responsibilities to ensure designed-in safety – including failsafe functions, redundancy, and measures to prevent malfunctions and the spread of fire – in order to avoid injuries, accidents, or social repercussions resulting from the failure of any product related to satellite communications on this document (hereinafter, “the product”). Customers must pay careful attention to ensuring the safety of their equipment.
2. The product is designed and tested to function in accordance with its specifications. Do not use under conditions that deviate from the product specifications included in the specifications. Nisshinbo Micro Devices Inc. assumes no responsibility and shall not be liable for any injuries, accidents, or social repercussions resulting from the product being in a poor or damaged state because it was used under conditions that depart from the specifications.
3. The product is covered by a warranty for one year following delivery unless otherwise stipulated in the contract or delivery conditions. In the event of a failure for which Nisshinbo Micro Devices Inc. are responsible occurring during the warranty period, Nisshinbo Micro Devices Inc. undertake to repair or replace the product free of charge. Note, however, that the warranty does not cover failures such as those listed here (see bullets below), even if they occur within the warranty period. In addition, in the case of a product being repaired or replaced by us, the starting date for the warranty period is still the original delivery date of the product.
 - Failure due to the product being used in conditions other than those stipulated in the data sheet, specification sheet, etc.
 - Failure due to modifications or repairs carried out by some entity other than our company
 - Failure determined to be the result of unsuitable maintenance or replacement of a consumable item that requires due maintenance
 - Failure due to circumstances that were unforeseeable given the scientific/technological standards at the time of shipment
 - Other failures due to external factors such as fire, earthquake, flood and power supply anomalies for which Nisshinbo Micro Devices Inc. are not responsible

In addition, the product warranty is limited to the provision of repair services or replacement at no cost. It does not cover secondary damage (to equipment, business opportunities, profits, etc.) or any other damage that may have resulted from failure of the product.
4. The product must be handled appropriately to ensure its continued reliability. Since it can be damaged by the intrusion of water, dust, oil, chemicals, etc., it must be given appropriate protection. Even in the case of a product with an airtight construction, avoid using it in an environment that exceeds the stated levels of waterproofing/dustproofing. Also, be sure to use connectors and waveguides properly.

If replacement parts such as fans are included, proper maintenance is necessary. To maintain product performance and functionality, it is necessary to conduct inspections and maintenance at appropriate intervals and exchange replacement parts when necessary. Improper inspections or maintenance may result in failure.

In addition, the warranty does not cover the use of the product in areas where salt damage can be expected or where there is a substantial presence of corrosive gases such as Cl₂, H₂S, SO₂, and NO₂. If the product is to be used in such areas, at the time of installation you must take appropriate steps to protect the product.
5. If the product is to be used with equipment/systems that must meet special quality and reliability standards (aerospace equipment, medical equipment, power generation control equipment, automotive/railway transportation equipment, safety equipment, disaster prevention and security equipment, etc.), please consult with our sales staff in advance.
6. This product contains gallium arsenide (GaAs), classified as a harmful substance. To avoid danger, do not incinerate, crush, or chemically treat the product in such a way that gases or dust are released. When disposing of the product, comply with all applicable laws and regulations and do not treat it as general industrial waste or household waste.
7. When exporting a product or technology, observe export laws and regulations such as those governing foreign exchange and foreign trade, and obtain any necessary licenses for export, service transactions, etc. Nisshinbo Micro Devices Inc. request that you do not use our products or the technical data published on this document for developing weapons of mass destruction or for any other military purposes or applications.
8. The product specifications on this document are subject to change without notice. If you are considering using a product, delivery specifications must first be settled.

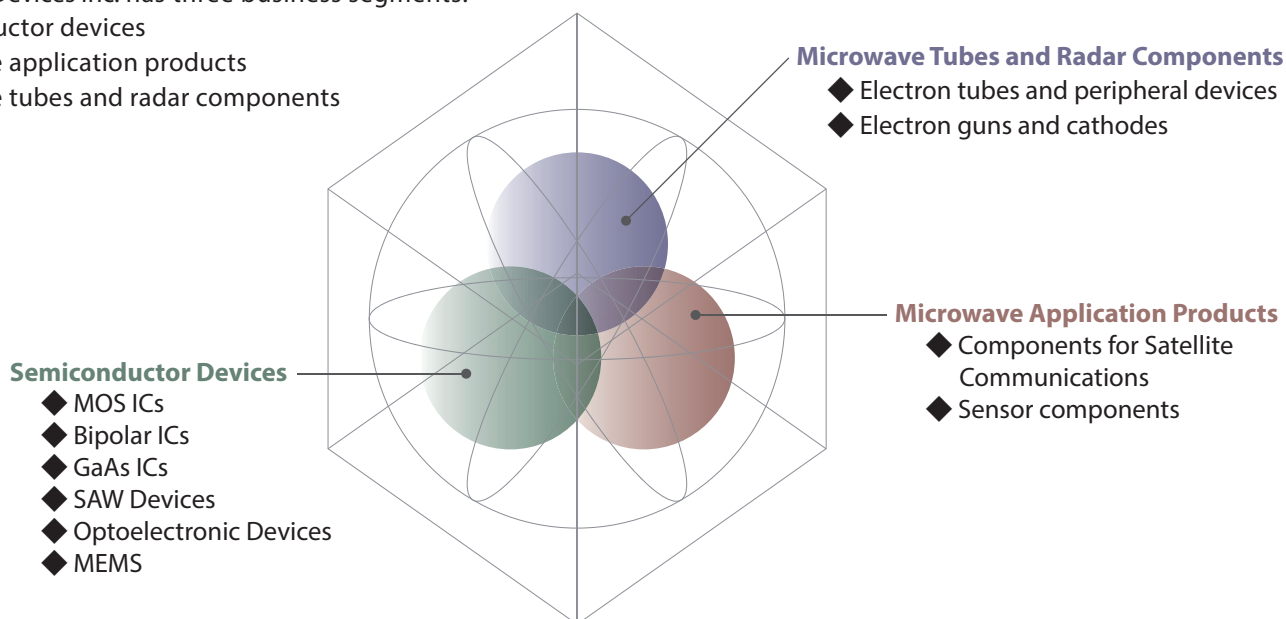
Nisshinbo Micro Devices Inc. was founded in 1959, as the progeny of Japan Radio Co., Ltd., and has emerged as pioneer in microwave and semiconductor technologies in Japan.

Since then, Nisshinbo Micro Devices Inc. has devoted their own technologies to develop the products.

Now, under the concept of the convergence of "Microelectronics" and "Microwave" to expand their technology, Nisshinbo Micro Devices Inc. sets to meet demands of the ubiquitous age.

Nisshinbo Micro Devices Inc. has three business segments:

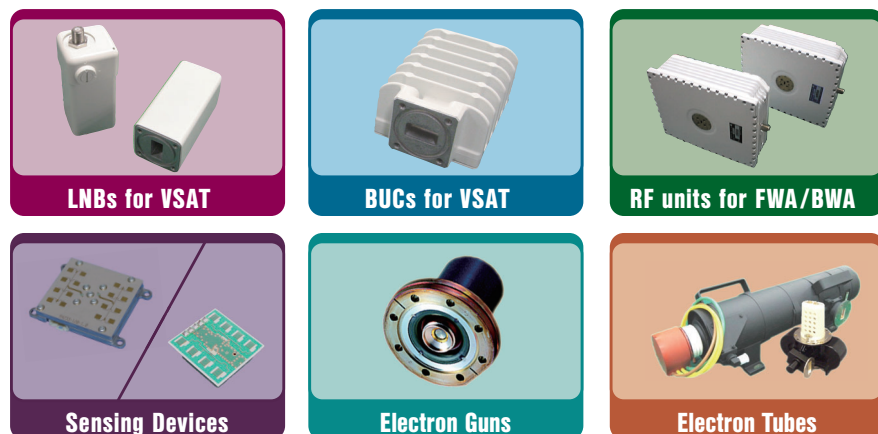
- Semiconductor devices
- Microwave application products
- Microwave tubes and radar components



Microwave Business Headquarters is one of divisions engaged in Nisshinbo Micro Devices Inc. which has kept supplying reliable components, created through the concept of "Microelectronics" and "Microwave", in microwave fields.

Components which Microwave Business Headquarters has been supplying are as shown below.

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



Catalog URL



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

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