

Universal/Standard Ku-band 16W BUC

MODEL No. NJT8319 series

< Features >

* High Temperature Operating

- Operation Guarantee Temperature Range:
-40 to +75 °C

* RF Frequency Line-up

- Universal Ku-band: 13.75 to 14.5 GHz
- Standard Ku-band: 14.0 to 14.5 GHz

* High Efficiency Output Power

(16W Model)

- P1dB: +42 dBm min. over temperature
- Power Consumption: 160 W typ.
- IM3: -28 dBc @ Pout <= +39 dBm

* Monitor & Control Line-up

- FSK Communication M&C
- RS-232C Interface Serial M&C

* Smaller Size & Lighter Weight

- Dimension: 180 (L) x 130 (W) x 80 (H) mm
- Weight: 2.4 kg



< Line-Up >

| Model No. | RF Frequency | Local Frequency | IF Frequency | Output Power @ P1dB | IF Connector | Power Supply | Port for Voltage Input | M&C Option | | | | | | | | | | | | |
|------------|--|--------------------|--------------------------|-----------------------------|--|--------------------------|--|-----------------------------|--|--------------------------|--|-----------------------------|--|--------------------------|--|-----------------------------|--------------------|--------------------------|--|----------------|
| NJT8319N | 14.0 to 14.5 GHz (Standard Ku-band) | 13.05 GHz | 950 to 1,450 MHz | 16W Linear (+42dBm min.) | N-type | +36 to +60 V DC Power | IF Connector | N/A | | | | | | | | | | | | |
| NJT8319F | | | | | F-type | | MS Connector * Note 2 (IF Connector Option) | | | | | | | | | | | | | |
| NJT8319NM | | | | | N-type | | | | AC Power Option | | | | | | | | | | | |
| NJT8319FM | | | | | F-type | | MS Connector * Note 1 | | | | | | | | | | | | | |
| NJT8319NMA | | | | | 14.0 to 14.5 GHz (Standard Ku-band) | 13.05 GHz | 950 to 1,450 MHz | 16W Linear (+42dBm min.) | N-type | +36 to +60 V DC Power | IF Connector | FSK M&C | | | | | | | | |
| NJT8319FMA | | | | | | | | | F-type | | MS Connector * Note 2 (IF Connector Option) | | | | | | | | | |
| NJT8319NK | | | | | | | | | N-type | | | | AC Power Option | | | | | | | |
| NJT8319FK | | | | | | | | | F-type | | MS Connector * Note 1 | | | | | | | | | |
| NJT8319NFK | | | | | | | | | 14.0 to 14.5 GHz (Standard Ku-band) | 13.05 GHz | 950 to 1,450 MHz | 16W Linear (+42dBm min.) | N-type | +36 to +60 V DC Power | IF Connector | RS-232C M&C | | | | |
| NJT8319NMF | | | | | | | | | | | | | F-type | | MS Connector * Note 2 (IF Connector Option) | | | | | |
| NJT8319NMF | | | | | | | | | | | | | N-type | | | | AC Power Option | | | |
| NJT8319NMF | | | | | | | | | | | | | F-type | | MS Connector * Note 1 | | | | | |
| NJT8319NMR | | | | | | | | | | | | | 14.0 to 14.5 GHz (Standard Ku-band) | 13.05 GHz | 950 to 1,450 MHz | 16W Linear (+42dBm min.) | N-type | +36 to +60 V DC Power | IF Connector | N/A |
| NJT8319NMF | | | | | | | | | | | | | | | | | F-type | | MS Connector * Note 2 (IF Connector Option) | |
| NJT8319NMF | N-type | AC Power Option | | | | | | | | | | | | | | | | | | |
| NJT8319NMF | F-type | | MS Connector * Note 1 | | | | | | | | | | | | | | | | | |
| NJT8319NMR | 13.75 to 14.5 GHz (Universal Ku-band) | 12.80 GHz | 950 to 1,700 MHz | 16W Linear (+42dBm min.) | | | | | | | | | | | | | N-type | +36 to +60 V DC Power | IF Connector | FSK M&C |
| NJT8319NMF | | | | | | | | | | | | | | | | | F-type | | MS Connector * Note 2 (IF Connector Option) | |
| NJT8319NMF | | | | | N-type | AC Power Option | | | | | | | | | | | | | | |
| NJT8319NMF | | | | | F-type | | MS Connector * Note 1 | | | | | | | | | | | | | |
| NJT8319NMR | | | | | 13.75 to 14.5 GHz (Universal Ku-band) | 12.80 GHz | 950 to 1,700 MHz | 16W Linear (+42dBm min.) | | | | | | | | | N-type | +36 to +60 V DC Power | IF Connector | RS-232C M&C |
| NJT8319NMF | | | | | | | | | | | | | | | | | F-type | | MS Connector * Note 2 (IF Connector Option) | |
| NJT8319NMF | | | | | | | | | N-type | AC Power Option | | | | | | | | | | |
| NJT8319NMF | | | | | | | | | F-type | | MS Connector * Note 1 | | | | | | | | | |

* Note1) Additional outdoor 250W AC/DC PSU is enclosed for AC Power Option and DC Power is supplied at MS connector of BUC from AC/DC PSU via power cable.

* Note2) MS Connector models are available to apply DC voltage via either MS Connector or IF Connector.

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

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■ Universal/Standard Ku-band 16W BUC

AC Power Option: Outdoor 250W AC/DC Power Supply Unit (PSU)

< Specifications >

| Item | Specifications |
|-----------------------------|---|
| Input AC Voltage Range | 100 to 240 V (Rating: 90 to 264 V) |
| Input AC Power | 300 VA max. |
| Output DC Voltage | +48 V typ. |
| Output DC Power Capacity | 250 W max. |
| Efficiency | 90 % |
| Power Factor | 0.9 |
| Temperature Range (ambient) | Operating: -40 to +55 C Storage: -40 to +75 C |
| Dimension & Housing | 186 (L) x 133 (W) x 60 (H) mm [7.32" (L) x 5.24" (W) x 2.36" (H)] without interface connector and screws |
| Weight | 1.6 kg max. [3.5 lbs max.] |

< Outline Drawing >

