

# **Microwave Components** **for Satellite Communications (VSAT)**

## C-band Low Noise Block Downconverter [LNB]

### 1) C-band / Insat C-band / Palapa C-band PLL-LNB (Internal Reference Type)

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJS8476H	3.400 to 4.200 GHz (Palapa C-band)	5.15 GHz	+/- 10 ppm	950 to 1,750 MHz	F-type
NJS8476HN					N-type
NJS8476S			+/- 3 ppm		F-type
NJS8476SN					N-type
NJS8477H	3.625 to 4.200 GHz (C-band)	5.15 GHz	+/- 10 ppm	950 to 1,525 MHz	F-type
NJS8477HN					N-type
NJS8477S			+/- 3 ppm		F-type
NJS8477SN					N-type
NJS8478H	4.500 to 4.800 GHz (Insat C-band <1>)	5.76 GHz	+/- 10 ppm	960 to 1,260 MHz	F-type
NJS8478HN					N-type
NJS8478S			+/- 3 ppm		F-type
NJS8478SN					N-type
NJS8479H	4.500 to 4.800 GHz (Insat C-band <2>)	5.95 GHz	+/- 10 ppm	1,150 to 1,450 MHz	F-type
NJS8479HN					N-type

### 2) C-band / Insat C-band / Palapa C-band PLL-LNB (External Reference Type)

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJS8476E	3.400 to 4.200 GHz (Palapa C-band)	5.15 GHz	Depends on external reference	950 to 1,750 MHz	F-type
NJS8476EN					N-type
NJS8477E	3.625 to 4.200 GHz (C-band)	5.15 GHz		950 to 1,525 MHz	F-type
NJS8477EN					N-type
NJS8478E	4.500 to 4.800 GHz (Insat C-band)	5.76 GHz		960 to 1,260 MHz	F-type
NJS8478EN					N-type

## C-band Low Noise Amplifier [LNA]

### 1) C-band LNA

Model No.	RF Frequency	Connector
NJS8442	3.400 to 4.200 GHz (Palapa C-band)	N-type
NJS8440	3.625 to 4.200 GHz (C-band)	N-type
NJS8441	4.500 to 4.800 GHz (Insat C-band)	N-type

## C-band Block Upconverter [BUC]

### 1) C-band / XC-band BUC 1 W Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5665	5.850 to 6.425 GHz (C-band)	4.90 GHz	950 to 1,525 MHz	1W (+30 dBm min.)	N-type
NJT5665F					F-type
NJT5666	6.725 to 7.025 GHz (XC-band)	5.76 GHz	965 to 1,265 MHz		N-type
NJT5666F					F-type

### 2) C-band / XC-band BUC 2 W Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5652	5.850 to 6.425 GHz (C-band)	4.90 GHz	950 to 1,525 MHz	2W (+33dBm min.)	N-type
NJT5652F					F-type
NJT5657	6.725 to 7.025 GHz (XC-band)	5.76 GHz	965 to 1,265 MHz		N-type
NJT5657F					F-type

### 3) C-band / XC-band BUC 5 W Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5656	5.850 to 6.425 GHz (C-band)	4.90 GHz	950 to 1,525 MHz	5W (+37 dBm min.)	N-type
NJT5656F					F-type
NJT5661	6.725 to 7.025 GHz (XC-band)	5.76 GHz	965 to 1,265 MHz		N-type
NJT5661F					F-type

## Ku-band Low Noise Block Downconverter [LNB]

### 1) Ku-band DRO Type Single LNB

[Type 1: Local Stability +/- 1.5 MHz]

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJR2184F	10.95 to 11.70 GHz	10.00 GHz	+/- 1.5 MHz	950 to 1,700 MHz	F-type
NJR2183F	11.20 to 11.70 GHz	10.25 GHz		950 to 1,450 MHz	
NJR2144F	11.70 to 12.20 GHz	10.75 GHz		950 to 1,450 MHz	
NJR2154A	12.25 to 12.75 GHz	11.30 GHz		950 to 1,450 MHz	

[Type 2: Local Stability +/- 900 kHz]

**NEW MODEL**

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJR2784H	10.95 to 11.70 GHz	10.00 GHz	+/- 0.9 MHz	950 to 1,700 MHz	F-type
NJR2783H	11.20 to 11.70 GHz	10.25 GHz		950 to 1,450 MHz	
NJR2744H	11.70 to 12.20 GHz	10.75 GHz		950 to 1,450 MHz	
NJR2754H	12.25 to 12.75 GHz	11.30 GHz		950 to 1,450 MHz	

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJR2184HW	10.95 to 11.70 GHz	10.00 GHz	+/- 0.9 MHz	950 to 1,700 MHz	F-type
NJR2183HW	11.20 to 11.70 GHz	10.25 GHz		950 to 1,450 MHz	
NJR2144HW	11.70 to 12.20 GHz	10.75 GHz		950 to 1,450 MHz	
NJR2154HW	12.25 to 12.75 GHz	11.30 GHz		950 to 1,450 MHz	



[Type 3: Local Stability +/- 500 kHz]

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJR2184HA	10.95 to 11.70 GHz	10.00 GHz	+/- 0.5 MHz	950 to 1,700 MHz	F-type
NJR2183HA	11.20 to 11.70 GHz	10.25 GHz		950 to 1,450 MHz	
NJR2144HA	11.70 to 12.20 GHz	10.75 GHz		950 to 1,450 MHz	
NJR2144HT					
NJR2154HA	12.25 to 12.75 GHz	11.30 GHz		950 to 1,450 MHz	

4) Ku-band PLL-LNB

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJR2537H	10.95 to 11.70 GHz	10.00 GHz	+/- 10 ppm	950 to 1,700 MHz	F-type
NJR2537HN			+/- 3 ppm		N-type
NJR2537S					F-type
NJR2537SN			N-type		
NJR2539S	11.20 to 11.70 GHz	10.25 GHz	+/- 3 ppm	950 to 1,450 MHz	F-type
NJR2539SN					N-type
NJR2535H	11.70 to 12.20 GHz	10.75 GHz	+/- 10 ppm	950 to 1,450 MHz	F-type
NJR2535HN			+/- 3 ppm		N-type
NJR2535S					F-type
NJR2535SN			N-type		
NJR2536H	12.25 to 12.75 GHz	11.30 GHz	+/- 10 ppm	950 to 1,450 MHz	F-type
NJR2536HN			+/- 3 ppm		N-type
NJR2536S					F-type
NJR2536SN			N-type		

5) Ku-band External Reference Type PLL-LNB

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJR2637E	10.95 to 11.70 GHz	10.00 GHz	Depends on external reference	950 to 1,700 MHz	F-type
NJR2637EN0					N-type
NJR2639E	11.20 to 11.70 GHz	10.25 GHz		950 to 1,450 MHz	F-type
NJR2639EN0					N-type
NJR2633E	11.45 to 11.95 GHz	10.50 GHz		950 to 1,450 MHz	F-type
NJR2633EN0					N-type
NJR2635E	11.70 to 12.20 GHz	10.75 GHz		950 to 1,450 MHz	F-type
NJR2635EN0					N-type
NJR2634E	12.20 to 12.70 GHz	11.25 GHz		950 to 1,450 MHz	F-type
NJR2634EN0					N-type
NJR2636E	12.25 to 12.75 GHz	11.30 GHz	950 to 1,450 MHz	F-type	
NJR2636EN0				N-type	

Ku-band Block Upconverter [BUC]

1) Ku-band / Extended Ku-band BUC 1 W Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5075H	13.75 to 14.25 GHz (Extended Ku)	12.80 GHz	950 to 1,450 MHz	1W (+30 dBm typ.)	N-type
NJT5075FH					F-type
NJT5015	14.0 to 14.5 GHz (Ku-band)	13.05 GHz	950 to 1,450 MHz	1W (+30 dBm min.)	N-type
NJT5015F					F-type
NJT5015H					N-type
NJT5015FH					F-type



## 2) Ku-band / Extended Ku-band BUC 2 W Type

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5076	13.75 to 14.25 GHz (Extended Ku)	12.80 GHz	950 to 1,450 MHz	2W (+33 dBm min.)	N-type
NJT5076F					F-type
NJT5016	14.0 to 14.5 GHz (Ku-band)	13.05 GHz	950 to 1,450 MHz	2W (+33 dBm typ.)	N-type
NJT5016F					F-type
NJT5016H					N-type
NJT5016FH					F-type

NJT5024	14.0 to 14.5 GHz (Ku-band)	13.05 GHz	950 to 1,450 MHz	2W (+33 dBm min.)	N-type
NJT5024F					F-type

## 3) Ku-band / Extended Ku-band BUC 4 W Type

### NEW MODEL

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5077	13.75 to 14.25 GHz (Extended Ku)	12.80 GHz	950 to 1,450 MHz	4W (+36 dBm min.)	N-type
NJT5077F					F-type
NJT5017	14.0 to 14.5 GHz (Ku-band)	13.05 GHz	950 to 1,450 MHz		N-type
NJT5017F					F-type

NJT5025	14.0 to 14.5 GHz (Ku-band)	13.05 GHz	950 to 1,450 MHz	4W (+36 dBm min.)	N-type
NJT5025F					F-type

## Ka-band Low Noise Block Downconverter [LNB]

### 1) Ka-band DRO Type Single LNB

#### NEW MODEL

Model No.	RF Frequency	Local Frequency	Local Stability	IF Frequency	Connector
NJR2803F type A	19.20 to 19.70 GHz	18.25 GHz	+/- 1.0 MHz	950 to 1,450 MHz	F-type
NJR2803F type B	19.70 to 20.20 GHz	18.75 GHz		950 to 1,450 MHz	
NJR2803F type C	20.20 to 20.70 GHz	19.25 GHz		950 to 1,450 MHz	
NJR2803F type D	20.70 to 21.20 GHz	19.75 GHz		950 to 1,450 MHz	

## Ka-band Block Upconverter [BUC]

### 1) Ka-band BUC 2W Type

#### NEW MODEL

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	Connector
NJT5803F	29.5 to 30.0 GHz	28.50 GHz	1,000 to 1,500 MHz	2W (+33 dBm typ.)	F-type