

### < Features >

- \* **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**

(40W Model)

  - P1dB: +46 dBm min. over temperature
  - Power Consumption: 450 VA

(25W Model)

  - P1dB: +44 dBm min. over temperature
  - Power Consumption: 300 VA
- \* **AC Power Operation**
- \* **Smaller Size & Lighter Weight**
  - Dimension: 250 (L) x 170 (W) x 170 (H) mm
  - Weight: 7.0 kg



### < Line-Up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	Power Supply	M&C Description
NJT8321NMR	14.0 to 14.5GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz	40W Linear (+46dBm min.)	N-type	90 to 264 V AC Power	RS-485 Serial M&C
NJT8321FMR					F-type		
NJT8321UNMR	13.75 to 14.5GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz		N-type		
NJT8321UFMR					F-type		
NJT8320NMR	14.0 to 14.5GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz	25W Linear (+44dBm min.)	N-type		
NJT8320FMR					F-type		
NJT8320UNMR	13.75 to 14.5GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz		N-type		
NJT8320UFMR					F-type		

### < Specifications >

Item	Specifications	
	25W (+44 dBm min.)	40W (+46 dBm min.)
Output Power @ 1dB G.C.P. (P1dB)	+44 dBm min. over temperature	+46 dBm min. over temperature
Saturation Output Power	+45 dBm typ.	+47 dBm typ.
Linear Gain	70 dB nom., 64 dB min.	
Gain Variation over frequency	5 dBp-p max. over RF band / 2 dBp-p max. over 36 MHz	
Gain Stability over temperature	2 dBp-p typ., 5 dBp-p max.	
IM3	-28 dBc typ., -24 dBc max. @ total power ≤ Pout - 3dB	
ACPR	-28 dBc typ. @ Pout ≤ Pout - 1dB	
L.O. Phase Noise	-60 dBc/Hz max. @ 100 Hz -90 dBc/Hz max. @ 100 kHz	-70 dBc/Hz max. @ 1 kHz -100 dBc/Hz max. @ 1 MHz
Input V.S.W.R. / Output V.S.W.R.	2 : 1 max. / 1.5 : 1 max.	
Power Requirement (1) Voltage Range (2) Power Consumption @ P1dB	90 to 264 V AC Power 300 VA max. (Target)	90 to 264 V AC Power 450 VA max. (Target)
Mute	Shut off the HPA in case of L.O. unlocked or no 10 MHz reference signal	
M&C Function	RS-485 Serial M&C: Power Monitor / TX On/Off Control / Alarm ... etc	
Temperature Range (ambient)	Operating: -40 to +55 C / Storage: -40 to +75 C	
Dimension & Housing	250 (L) x 170 (W) x 170 (H) mm without interface connector and screws	
Weight	7.0 kg	

(1/2)

Rev.01 Ku 25W/40W BUC\_NJT8320/21

