

# Standard C-band 10W BUC

## MODEL No. NJT5762 series

### < Features >

- \* **High Efficiency & Low Distortion**
  - P1dB: +40 dBm min. over temperature
  - IM3: -28 dBc @ Pout = +37 dBm
  - Power Consumption: 69 W
- \* **Compact Size & Light Weight**
  - Weight: 3.2kg
- \* **AC Power Option**
- \* **LED Indicator**
- \* **RoHS Compliance**



### < Line-up >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	IF Connector	Power Supply	Port for Voltage Input	LED Indicator
NJT5762N	5.85 to 6.425 GHz (Standard C-band)	4.90 GHz	950 to 1,525 MHz	10W Linear (+40 dBm min.)	N-type	DC Power +24/+48 VDC (+18 to +60 VDC)	Same as IF Connector	Equipped
NJT5762F					F-type			
NJT5762NM					N-type			
NJT5762FM					F-type	AC Power Option	IF Connector Supplied by AC PSU	
NJT5762NA					N-type			
NJT5762FA					F-type			

### < Specifications >

Item	Specifications
Output Interface	Waveguide, CPR137 (with Groove)
Input Interface	N-type, female (50 ohm) [Model No.: NJT5762N/62NM/62NA] F-type, female (75 ohm) [Model No.: NJT5762F/62FM/62FA]
Output Power @ 1 dB G.C.P.	+40 dBm min. over temperature
Linear Gain	64 dB nom., 58 dB min.
IM3	-28 dBc typ. @total power = +40dBm - 3dB
Requirement for External Reference	[Frequency] 10 MHz (sine-wave)
	[Input Power] -5 to +5 dBm @ Input port
	[Phase Noise] -125 dBc/Hz max. @ 100 Hz
	-135 dBc/Hz max. @ 1 kHz
L.O. Phase Noise	-60 dBc/Hz max. @ 100 Hz
	-70 dBc/Hz max. @ 1 kHz
	-80 dBc/Hz max. @ 10 kHz
	-90 dBc/Hz max. @ 100 kHz
Receive Band Noise Density	-87 dBm/4kHz max. @3.625 to 4.200 GHz
Input V.S.W.R.	2.0 : 1 max.
Output V.S.W.R.	2.0 : 1 max.
Power Requirement / Consumption	+24 / +48 VDC (+18 to +60 VDC) / 69 W typ., 75 W max.
	AC Power Option: 90 to 264 VAC at Indoor AC/DC PSU [Model No.: NJT5762NA/62FA]
Mute	Shut off the HPA in case of L.O. unlocked or no 10 MHz reference signal
LED Indicator	GREEN: L.O. locked / RED: L.O. unlocked or no 10 MHz reference signal
Port for Voltage Input	Same as IF Connector [Model No.: NJT5762N/62F]
	MS Connector (Separate Port) [Model No.: NJT5762NM/62FM]
	IF Connector supplied by AC/DC PSU via IF Cable [Model No.: NJT5762A/62FA]
Temperature Range (ambient)	-40 to +55 °C (operating), -40 to +75 °C (storage)
Waterproof/Dustproof (IP Code)	IP 67
Dimension & Housing (without Interface Connectors)	219.5 mm (L) x 175 mm (W) x 99 mm (H) [8.64" (L) x 6.89" (W) x 3.90" (H)]
Weight	3.2 kg [7.0 lbs]

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

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