

Standard Ku-band 8W BUC

MODEL No. NJT5118 series

< Features >

- * **High Efficiency & Low Distortion**
 - P1dB: +39 dBm min. over temperature
 - IM3: -28 dBc @ Pout = +36 dBm
 - Power Consumption: 79 W
- * **Wide Operating Range of DC Power Operation**
 - Voltage Range: +18 to +60 VDC
- * **Compact Size & Light Weight**
 - Weight: 3.2kg
- * **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
NJT5118N	14.0 to 14.5 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz	8W Linear (+39 dBm min.)	N-type	DC Power +24/+48 VDC (+18 to +60 VDC)	Same as IF Connector	Equipped
NJT5118F					F-type		MS Connector (Separate Port)	
NJT5118NM					N-type			
NJT5118FM					F-type	AC Power Option	IF Connector Supplied by AC PSU	
NJT5118NA					N-type			
NJT5118FA					F-type			

< Specifications >

Item	Specifications
Output Interface	Waveguide, WR75 (with Groove)
Input Interface	N-type, female (50 ohm) [N-type IF Connector Model] F-type, female (75 ohm) [F-type IF Connector Model]
Output Power @ 1 dB G.C.P.	+39 dBm min. over temperature
ACPR	-28 dBc typ. @ Pout = +38 dB
Linear Gain	65 dB nom., 59 dB min.
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 -140 dBc/Hz max. @ 10 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 -100 dBc/Hz max. @ 1 MHz
Receive Band Noise Density	-156 dBm/Hz max. @10.95 to 12.75 GHz, @ Pout <= +39 dBm
Input V.S.W.R.	2 : 1 max.
Output V.S.W.R.	2 : 1 max.
Power Requirement	+18 to +60 VDC Power
Power Consumption	79 W typ., 90 W max.
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
Temperature Range (ambient)	[Operating] -40 to +55 °C [Storage] -40 to +75 °C
Waterproof/Dustproof (IP Code)	IP 67
Dimension & Housing	219.5 mm (L) x 175 mm (W) x 99 mm (H) [8.64" (L) x 6.89" (W) x 3.90" (H)] (without Interface Connectors and Screws)
Weight	3.2 kg [7.0 lbs]

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

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