■ 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: 3.2 kg

- * 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				N-type		Same as	
NJT5118F	14.5 GHz	13.05 GHz	950 to	8W Linear	F-type	+24/+48 VDC	IF Connector	Equipped
NJT5118NM	(Standard	13.05 GHZ	1,450 MHz	(+39 dBm min.)	N-type	(+18 to +60 VDC)	MS Connector	Equipped
NJT5118FM	Ku-band)				F-type		(Separate Port)	

< Specifications >

Item	Specifications				
Output Interface	Waveguide, WR75 (with Groove)				
Input Interface	N-type, female (50 ohm) [Model No.: NJT5118N/18NM]				
	F-type, female (75	ohm) [Model No.: NJT5118F/18FM]			
Output Power @ 1 dB G.C.P.	+39 dBm min. over temperature				
Linear Gain	65 dB nom., 59 dB min.				
IM3	-28 dBc typ. @ total power = $+39 dBm - 3 dB$				
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				
Receive Band Noise Density	-156 dBm/Hz max. @10.95 to 12.75 GHz				
Input V.S.W.R.	2.0 : 1 max.				
Output V.S.W.R.	2.0 : 1 max.				
Power Requirement	+24 / +48 VDC (+18 to +60 VDC)				
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	I / RED: L.O. unlocked or no 10 MHz reference signal			
Port for Voltage Input	Same as IF Connector [Model No.: NJT5118N/18F]				
	MS Connector (Separate Port) [Model No.: NJT5118NM/18FM]				
Temperature Range (ambient)	-40 to +55 C (operation	-40 to +55 C (operating), -40 to +75 C (storage)			
Dimension & Housing	219.5 mm (L) x 175 mm (W) x 99 mm (H)				
(without Interface Connectors)	[8.64" (L) x 6.89" (W) x 3.90" (H)]				
Weight	3.2 kg [7.0 lbs]				