

< 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**

NEW JAPAN RADIO CO. LTD



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

< 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
L.O. Phase Noise	-140 dBc/Hz max. @ 10 kHz	
	-60 dBc/Hz max. @ 100 Hz	
	-70 dBc/Hz max. @ 1 kHz	
	-80 dBc/Hz max. @ 10 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 / 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 (operating), -40 to +75 C (storage)	
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]	