

■ Standard / Universal Ku-band **25W BUC (SSPA)**

MODEL No. **NJT5323/53** series

< **Features** >

- \* **Solid State Power Amplifier (SSPA)**
- \* **High Efficiency & Low Distortion**
  - P1dB: +44 dBm min. over temperature
  - IM3: -25 dBc max. @ Pout = +41 dBm
  - Power Consumption: 205 W
- \* **Selectable RF Frequency Band**
  - Standard Ku-band: 14.00 to 14.50 GHz
  - Universal Ku-band: 13.75 to 14.50 GHz
- \* **AC Power Operating (Option)**
- \* **Analog & Digital (RS-485) M&C**
- \* **Compact Size & Light Weight**
  - Dimension: 262.2 x 137.7 x 114.3 mm
  - Weight: 4.3 kg



< **Line-Up** >

Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power @ P1dB	Power Supply	AC/DC BOX
NJT5323N	14.00 to 14.50 GHz (Standard Ku-band)	13.05 GHz	950 to 1,450 MHz	25W Linear (+44 dBm min.)	DC Power	-
NJT5323NAC					AC Power	Additional
NJT5353N	13.75 to 14.50 GHz (Universal Ku-band)	12.80 GHz	950 to 1,700 MHz		DC Power	-
NJT5353NAC					AC Power	Additional

< **Specifications** >

-Preliminary-

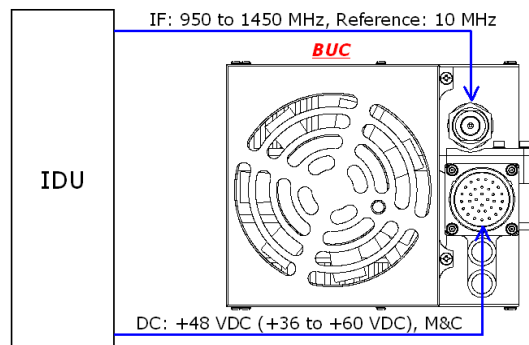
Item	Specifications	
Output Interface	Waveguide, WR75 with Groove	
Input Interface	[IF / Ref.]	N-type, female connector (50 ohm)
	[Power]	[DC Power] 32 pin connector [AC Power] AC(4 pin) connector
	[M&C]	[DC Power] 32 pin connector [AC Power] 19 pin connector
Output Power @ 1dB G.C.P.	+44 dBm min. over temperature	
Linear Gain	70 dB nom.	
IM3	-25 dBc max. @ total power = +44 dBm - 3 dB	
ACPR	-30 dBc typ. at 1.0 symbol rate offset @ Pout = +42 dBm with QPSK / OQPSK	
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	
	Compliant with IESS-308	
Receive Band Noise Density	-156 dBm/Hz max. @10.95 to 12.75 GHz	
V.S.W.R.	[Input] 2 : 1 max. [Output] 1.3 : 1 max.	
Power Requirement / Consumption	[DC Power]	+36 to +60 VDC / 185 W typ. @ Pout = +41 dBm, 205 W typ. @ Pout = +44 dBm
	[AC Power]	90 to 264 VAC / 215 VA typ. @ Pout = +41 dBm, 240 VA typ. @ Pout = +44 dBm
Monitor and Control	[Analog]	Function: Summary Alarm, Tx Control Enable/Disable
	[Digital]	Interface: RS-485
		Function: RF Power Monitor, Alarm(Summary, Local Unlock, Over Temp.) TX ON/OFF, Step Attenuator
Temperature Range (ambient)	[Operating] -40 to +55 C [storage] -40 to +75 C	
IP Code (IEC 60529)	IP55 (Dustproof / Waterproof)	
Cooling	Forced Air by Fan	
Dimension & Housing	BUC: 262.2 mm (L) x 137.7 mm (W) x 114.3 mm (H) [10.32" (L) x 5.42" (W) x 4.50" (H)]	
	AC/DC Box: 231.9 mm (L) x 137.7 mm (W) x 88.9 mm (H) [9.13" (L) x 5.42" (W) x 3.50" (H)]	
Weight	BUC: 4.3 kg [9.4 lbs] AC/DC box: 3.2 kg [7.0 lbs]	

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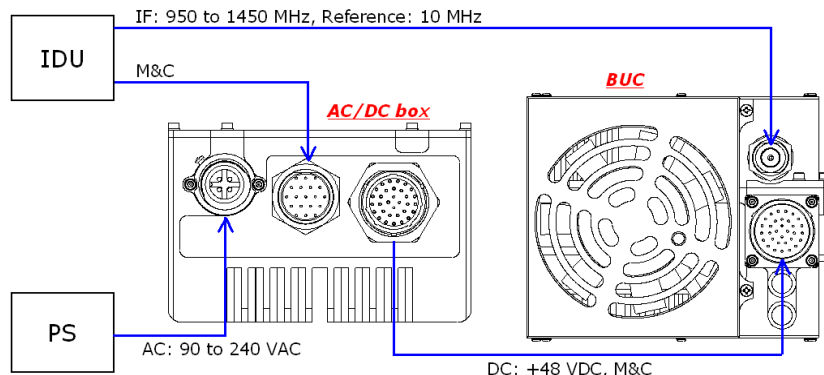
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< **Overveiw** >

**DC Power**

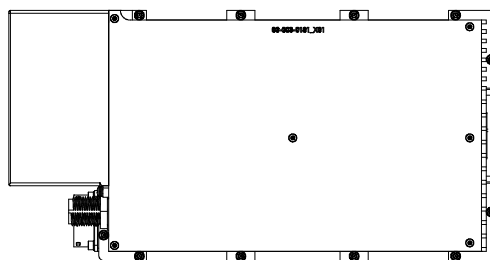


**AC Power**

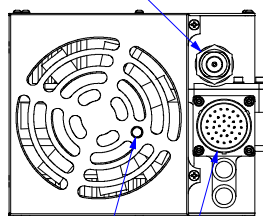


< **Outline Drawing** >

- BUC -

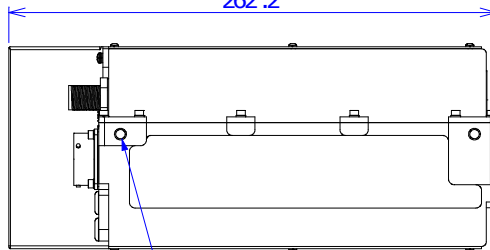


N-type female connector  
IF/Ref.



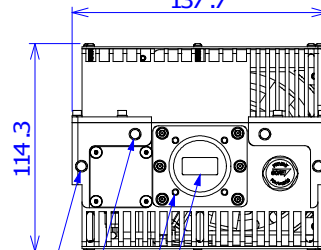
32p in connector: MS3112E18-32P (Amphenol)  
M&C/DC Power  
1/4-20 UNC [depth: 7m in.]

262.2



4 x 1/4-20 UNC [depth: 7m in.]

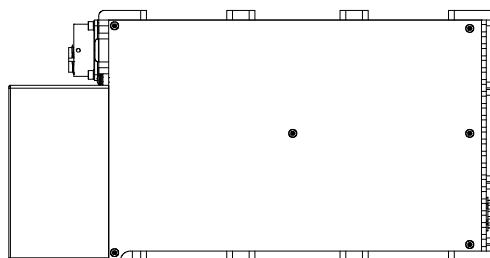
137.7



Waveguide: WR75 with Groove  
RF  
4 x M4 [depth: 6m in.]

2 x 1/4-20 UNC [depth: 6m in.]

2 x 1/4-20 UNC [depth: 15m in.]



Unit : mm

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