

# C-band 10W Block Upconverter

## MODEL No. NJT5662 Series

### < Features >

- \* No “Cooling Fan” Solution
- \* High Efficiency Output Power  
(10W minimum @P1dB over temperature)
- \* Three Power Supply Selections  
DC: +48Vdc Operation (+38 to +60 Vdc)
- \* Option: Separation of power supply port  
(MS-connector)
- \* RoHS Compliance



### <Line-Up>

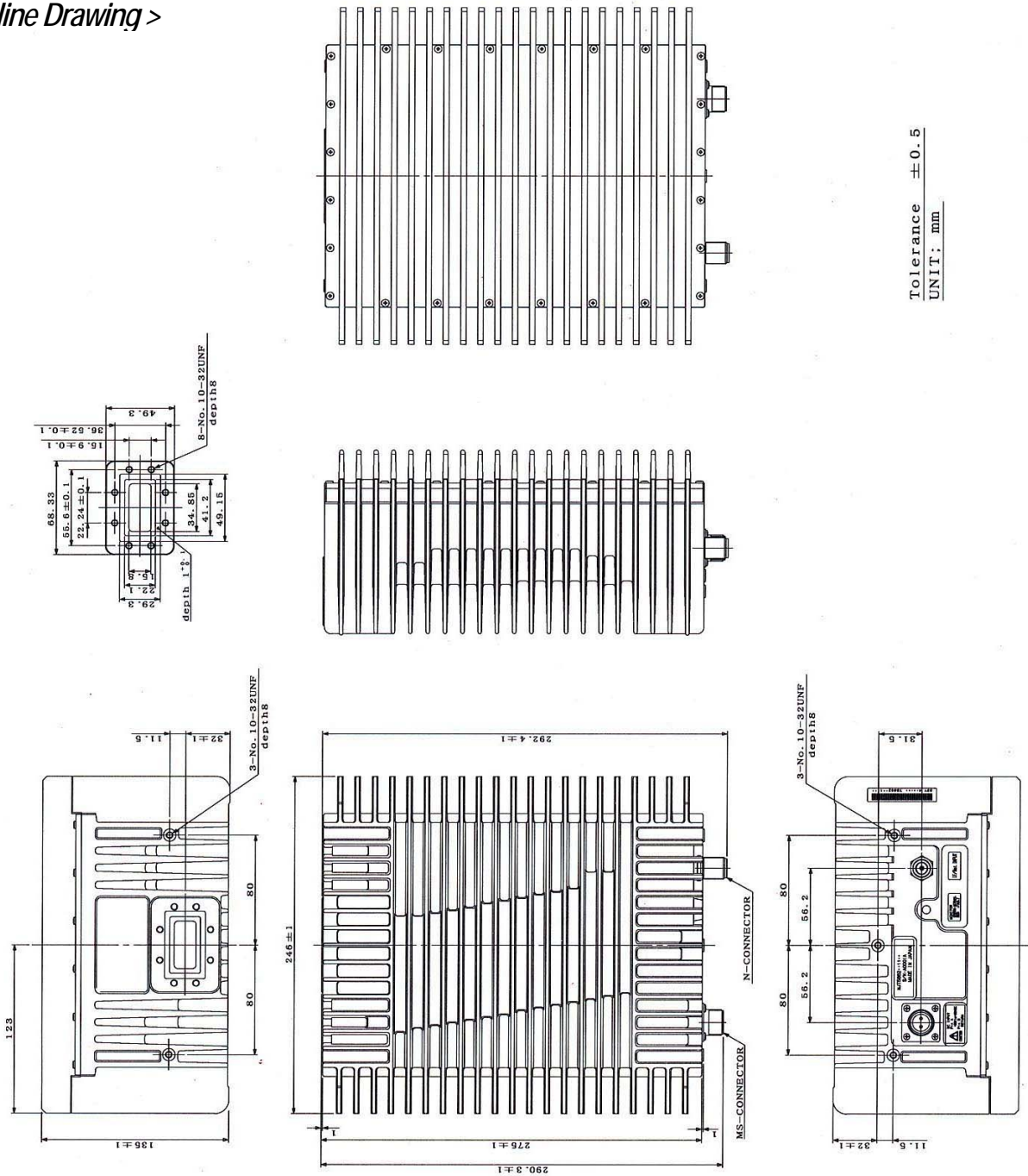
Model No.	RF Frequency	Local Frequency	IF Frequency	Output Power	IF Connector	Power Supply	Port for Voltage Input
NJT5662N00100	5.850 to 6.425 GHz (C-band)	4.90 GHz	950 to 1,525 MHz	10W Linear (+40 dBm min.)	N-type	+48Vdc	Same as IF Connector
NJT5662F00100					F-type		MS Connector
NJT5662N01100					N-type		(separate port)
NJT5662F01100					F-type		

### < Specifications >

Item	Specifications
Output Interface	Waveguide, CPR137-G (Grooved) with Flange
Output Power @ 1dB G.C.P.	+40 dBm min. over temperature
Linear Gain	64 dB nominal
Requirement for External Reference	[Frequency] 10 MHz (sine-wave) [Input Power] -5 to +5 dBm @ Input port [Phase Noise] -135 dBc/Hz max. @ 100 Hz -140 dBc/Hz max. @ 1 kHz -143 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
Input V.S.W.R.	2 : 1 max
Output V.S.W.R.	2 : 1 max.
DC Power Requirement	+48 VDC (+38 to +60 VDC), 130 W max.
Mute	Shut off the HPA in case of L.O. unlocked
Input Interface	N-type, female (50 ohms) [Model No. NJT5662N*****] F-type, female (75 ohms) [Model No. NJT5662F*****]
Dimension & Housing	275mm (L) x 246mm (W) x 135 mm (H) [10.8" (L) x 9.7" (W) x 5.3" (H)]
Weight	20 lbs max. [9 kg max.]
Temperature Range (ambient)	-40 to +55 C (operating) -40 to +75 C (storage)

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< Outline Drawing >



**JRC** *New Japan Radio Co., Ltd.*

**Satcom Resources**

Post Office Box 1639  
 101 Eagle Road - Building #7  
 Avon, Colorado 81620 USA  
 970 748-3094 or tollfree 866 SATCOM1  
 Fax 970 748-3096  
 www.satcomresources.com