



Outdoor Ku-Band Transmitters General Specifications

- Features and Options:**
- Over-temperature shutdown
 - Temperature monitor
 - RF power detection
 - Mute control
 - RS-485, RS-232 or Analogue M&C Interface Options

MODEL	OUTPUT POWER at P1dB min [Watts]	GAIN, dB Min	1 dB Compression Point	POWER CONSUMPTION [Watts]	SIZE Length X Width X Height [Inches]
NJAL1414-10	10	60	40 dBm	150	10.9 X 9.7 X 6.2 (Without fan)
NJAL1414-16	16	70	42 dBm	250	10.9 X 9.7 X 8.7
NJAL1414-20	20	70	43 dBm	300	10.9 X 9.7 X 8.7
NJAL1414-25	25	70	44 dBm	350	10.9 X 9.7 X 8.7
NJAL1414-40	40	80	46 dBm	600	12.9 X 9.2 X 13.2
NJAL1414-80	80	80	49 dBm	1200	16.9 X 16.8 X 9.2

ELECTRICAL CHARACTERISTICS	TECHNICAL SPECIFICATIONS	
Output Frequency range	14.00 to 14.50 GHz	
Input Frequency Range	950 to 1450 MHz	
Gain flatness over any 40 MHz	+/-1.0 dB max at room temperature	
Gain flatness over full band	+/-2.5 dB max at room temperature	
Gain variation	± 1.5 dB over operating temperature range	
Input VSWR (L-Band)	2.0 : 1, max	
Output Return Loss (Ku-Band)	-17dB, max	
Spurious at rated power	-50 dBc max.	
Third order IMD (two equal tones 5Mhz apart)	-30dBc max. @ 7dB back off	
Output Phase Noise	@ 1KHz	-70 dBc / Hz
	@ 10 KHz	-80 dBc /Hz
	@ 100 KHz	-90 dBc /Hz

POWER REQUIREMENTS	
Input supply voltage	110/220 VAC ±15% (47-63 HZ) Auto Ranging 48 VDC optional for models NJAL1414-10, -16, -20, -25

MECHANICAL CHARACTERISTICS	
IF input (L-Band) Interface	Type N Connector (Type F Connector Optional)
RF output (Ku-Band) Interface	WR75 Grooved
Power Input	MS3102R16-10P
M&C Analog Interface	MS3102R20-29S
RS-232 or RS-485 Interface	MS3102R14S-6S
Temperature Operating	-40° C to +55°C
Storage	-55°C to +85°C
Humidity	100%, considering, rain 2" per hour
Altitude	10000' AMSL

Note: The specifications are subject to change without notice.