



ALGA MICROVAWE BUCS KU Band



Features and Options

Gain Failure alarm
 Over-temperature shutdown
 RF power detection
 Mute control
 RS-485, RS232, RS422 or Analogue M&C Interface Options

Model	OUTPUT POWER at P1dB min (WATTS)	Gain, dB Min	1 dB Compression Point	Power Consumption (Watts)	SIZE (INCHES)
NJAL1414-10	10	60	40 dBm	120	11.0 x 9.7 x 5.4
NJAL1414-16	16	60	42 dBm	160	11.0 x 9.7 x 8.4
NJAL1414-20	20	60	43 dBm	200	11.0 x 9.7 x 8.4
NJAL1414-25	25	60	44 dBm	250	11.0 x 9.7 x 8.4
NJAL1414-40	40	60	46dBm	400	11.0 x 9.7 x 8.4

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	+/-1.3 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)	1.3 : 1, max		
Spurious at rated power	-60 dBc max.		
Third order IMD(two equal tones 5Mhz apart)	-30dBc max. @ 6dB back off (SCL 9 dB back off from P1dB) -25dBc max. @ 3dB back off (SCL 6 dB back off from P1dB)		
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, 12, 24 & 48 VDC (optional)		
MECHANICAL CHARACTERISTICS			
IF input (L-Band) Interface	Type N Connector (Type F optional)		
RF output (Ku-Band) Interface	WR75		
Power Input	MS3102R 16-10P (other options available)		
M&C Analog Interface	MS3102R 20-29S (other options available)		
RS 232 or RS-485 Interface	MS3102R 14S-6S (other options available)		
Temperature Operating	-40° C to +55°C		
Storage	-55°C to +85°C		
Humidity	100%, considering rain 2" per hour		
Altitude	10000' AMSL		

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