



ALGA Microwave Inc. *vsatplus*

Outdoor C-Band Upconverter (BUC)

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FEATURES:	Weatherproof Pressure tested up to 10 psi	Redundancy option
	Light weight & Compact	Overtemperature Shutdown

MODEL	OUTPUT POWER at PSAT typ. [Watts]	OUTPUT POWER at P1dB min [Watts] / [dBm]	GAIN, dB Min	POWER CONSUMPTION [Watts]	Weight [lbs / kgs]	SIZE Length X Width X Height [Inches]
NJALC-16	16	12 W / 41 dBm	70	150	15 / 7	11 X 9.6 X 5.2 (FANLESS)
NJALC-25	25	20 W / 43 dBm	70	300	20 / 9	11 X 9.6 X 8.5
NJALC-50	50	40 W / 46 dBm	70	450	20 / 9	11 X 9.6 X 8.5
NJALC-60	60	50 W / 47 dBm	70	500	20 / 9	11 X 9.6 X 8.5
NJALC-80	80	60 W / 47.8 dBm	70	550	35 / 16	11.5 X 11.2 X 11.3
NJALC-100	100	80 W / 49 dBm	80	600	35 / 16	11.5 X 11.2 X 11.3
NJALC-125	125	100 W / 50 dBm	80	750	35 / 16	11.5 X 11.2 X 11.3
NJALC-250	250	200 W / 53 dBm	80	1200	65 / 29	21.3 X 18.3 X 10.2

ELECTRICAL CHARACTERISTICS		TECHNICAL SPECIFICATIONS	
Output Frequency Range,	see options	5.85 to 6.425 GHz,	options XXX
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		+/-2.75 dB max at room temperature	
Gain Variation		± 2.5 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)		-34dBc max. @ 7dB back off from rated P1dB, -26dBc max. @ 3dB back off from rated P1dB	
Output Phase Noise		@ 1KHz	-70 dBc / Hz
		@ 10 KHz	-80 dBc / Hz
		@ 100 KHz	-90 dBc / Hz

POWER REQUIREMENTS	
Input supply voltage	see options 110/220 VAC ±15% (47-63 HZ) Auto Ranging 48 VDC optional for certain models

MECHANICAL CHARACTERISTICS	
IF input (L-Band) Interface	Type N Connector (Type F Connector Optional)
RF output (C-Band) Interface	CPR137 Grooved (Type N optional)
Power Input	MS3102R16-10P
M&C Interface	MS3102R20-29S
Redundant Interface	MS3102R18-1S
Temperature Operating	-40° C to +55° C
Storage	-55° C to +85° C
Humidity	100%, considering, rain 2" per hour
Altitude	10000' AMSL

Options (XXX)	Output Frequency	(X) 5.85 - 6.725 GHz	(X) 6.725 - 7.025 GHz	(X) other
	Power Supply	110 / 220 VAC	(X) 48 VDC	(X) other
	Input Connector	N-Type	(X) F-Type	(X) other
	Output Connector	CPR137 Grooved	(X) N-Type	(X) other
	M & C Interface	Analog (TTL)	(X) Digital (RS 232 or 485)	(X) other

M & C functions	Output Level control, RF Power detection, Temperature Monitor & Mute Control, etc...
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Note: The specifications are subject to change without notice.