

C-Band BUC (L Band)

- Features: Weatherproof Pressure tested up to 10 psi
 Light weight & Compact
 Redundancy option
 Indoor Rack Mount also available

Model	Output Power at PSAT typ. [Watts]	Output Power at P1dB min [Watts] / [dBm]	GAIN, dB Min	Power Consumption [Watts]	Weight [lbs / kgs]	Size L X W X H [Inches]
NJALC-16	16	12 W / 41 dBm	70	150	12 / 5.5	11 X 10 X 5.8 (FANLESS)
NJALC-25	25	20 W / 43 dBm	70	300	12 / 5.5	11 X 10 X 5.8 (FANLESS)
NJALC-50	50	40 W / 46 dBm	70	450	15 / 7	11 X 10 X 8
NJALC-80	80	60 W / 47.8 dBm	70	550	31 / 14	11.5 X 11.2 X 11.3
NJALC-100	100	80 W / 49 dBm	80	600	31 / 14	11.5 X 11.2 X 11.3
NJALC-125	125	100 W / 50 dBm	80	750	31 / 14	11.5 X 11.2 X 11.3
NJALC-200	200	150 W / 52 dBm	80	1000	65 / 29	21.3 X 18.3 X 10.2
NJALC-250	250	200 W / 53 dBm	80	1200	65 / 29	21.3 X 18.3 X 10.2
NJALC-400	400	300 W / 55 dBm	80	2000	88 / 40	24.3 X 18.3 X 11.9
NJALC-500	500	400 W / 56 dBm	80	2500	88 / 40	24.3 X 18.3 X 11.9

Electrical Characteristics

Technical Specifications

Output Frequency Range,	see options	5.85 - 6.425 GHz, (5.85 - 6.725 GHz optional)
Input Frequency Range,	options XXX	950 to 1,525 MHz, (950 to 1825 MHz, optional) (LO 4.9 GHz)
Input 10 MHz ref. required, unless internal 10 MHz ref option is chosen	options XXX	10 MHz ref. level -5 to +5 dBm
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		-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
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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)	INTERNAL 10 MHz Reference

M & C functions Output Level control, RF Power detection, Temperature Monitor & Mute Control, etc...

Note: The specifications are subject to change without notice.