

# C-Band SSPA

- 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-PA	16	12 W / 41 dBm	70	150	12 / 5.5	11 X 10 X 5.8 (FANLESS)
NJALC-25-PA	25	20 W / 43 dBm	70	300	12 / 5.5	11 X 10 X 5.8 (FANLESS)
NJALC-50-PA	50	40 W / 46 dBm	70	450	15 / 7	11 X 10 X 8
NJALC-80-PA	80	60 W / 47.8 dBm	70	550	31 / 14	11.5 X 11.2 X 11.3
NJALC-100-PA	100	80 W / 49 dBm	80	600	31 / 14	11.5 X 11.2 X 11.3
NJALC-125-PA	125	100 W / 50 dBm	80	750	31 / 14	11.5 X 11.2 X 11.3
NJALC-200-PA	200	150 W / 52 dBm	80	1000	65 / 29	21.3 X 18.3 X 10.2
NJALC-250-PA	250	200 W / 53 dBm	80	1200	65 / 29	21.3 X 18.3 X 10.2
NJALC-400-PA	400	300 W / 55 dBm	80	2000	88 / 40	24.3 X 18.3 X 11.9
NJALC-500-PA	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,	see options	5.85 - 6.425 GHz, (5.85 - 6.725 GHz optional)
Input level		max level +10 dBm
Gain flatness over any 40 MHz		+/-0.5 dB max at room temperature
Gain flatness over full band		+/-1.0 dB max at room temperature
Gain Variation		± 1.0 dB over operating temperature range
Gain Adjustment Range		20 dB with 1 dB step size
Input Return Loss		-17dB, max
Output Return Loss		-17dB, max
Noise Figure		10 dB @ maximum gain setting
Spurious at rated power		-60 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
Group Delay	Linear	+/- 0.01 nsec / MHz max
	Parabolic	+/- 0.003 nsec / MHz(squared) max
	Ripple	1 nsec Peak to Peak

## 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 (C-Band) Interface	Type N Connector
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...

Note: The specifications are subject to change without notice.