

Ku-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]
NJALKU-12-PA	12	10 W / 40 dBm	60	150	10 / 4.5	8.3 X 7.8 X 6.3 (FANLESS)
NJALKU-16-PA	16	12 W / 41 dBm	70	170	10 / 4.5	8.3 X 7.8 X 6.3 (FANLESS)
NJALKU-20-PA	20	16 W / 42 dBm	70	250	11 / 5.0	8.3 X 7.8 X 7.85
NJALKU-25-PA	25	20 W / 43 dBm	70	300	11 / 5.0	8.3 X 7.8 X 7.85
NJALKU-30-PA	30	25 W / 44 dBm	70	350	11 / 5.0	8.3 X 7.8 X 7.85
NJALKU-50-PA	50	40 W / 46 dBm	80	600	31 / 14	12.7 X 10.7 X 10.7
NJALKU-60-PA	60	50 W / 47 dBm	80	650	31 / 14	12.7 X 10.7 X 10.7
NJALKU-100-PA	100	80 W / 49 dBm	80	1200	82 / 37	16.2 X 16.0 X 7.3
NJALKU-200-PA	200	150 W / 52 dBm	80	2500	88 / 40	24.3 X 18.3 X 11.9

Electrical Characteristics		Technical Specifications	
Output Frequency Range,	see options	14.00 - 14.50 GHz, (13.75 - 14.50 GHz optional)	
Input Frequency Range,	see options	14.00 - 14.50 GHz, (13.75 - 14.50 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		12 dB @ maximum gain setting	
Spurious at rated power		-60 dBc max.	
Third order IMD (two equal tones 5MHz apart)		-33dBc max. @ 7dB back off from rated P1dB, -25dBc 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

Mechanical Characteristics	
IF input (KU-Band) Interface	Type N Connector (Type F Connector Optional)
RF output (KU-Band) Interface	WR75 Grooved
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) 13.75 - 14.5 GHz	(X) 13.75 - 14.25 GHz	(X) Other
	Power Supply	110 / 220 VAC	(X) 48 VDC	(X) Other
	Input Connector	N-Type	(X) F-Type	(X) Other
	Output Connector	WR-75 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.