

Ka Band Solid State Power Amplifier



The **Ka-band SSPA Series** are the outdoor solid state power amplifiers operating between 25.25 and 31 GHz. Intended for satellite up-link communications, they provide the capability of remote Monitoring and Control.

The design of these amplifiers is based on proven techniques resulting very good gain stability with temperature. The amplifiers offer wide range of output powers: from 10W up to 100W.



TECHNICAL SPECIFICATIONS

ELECTRICAL

	10W	20W	40W	50W	100W
Frequency range	25.25 to 27.5 GHz 29 to 31 GHz				
Output Power P1dB	40 dBm	43dBm	46dBm	45dBm	50dB
Gain	50dB	50 dB (optional 60dB)		65dB	60dB
Gain flatness	± 1 dB				
Gain stability	± 0.5 dB/24 hours			± 0.25 dB/24 hours	
Input VSWR	< 1.3:1				< 1.5:1
Output VSWR	< 1.3:1				< 1.5:1
Spurious	< -60 dBc				
Harmonics	< -60 dBc				

MECHANICAL INTERFACES

	10W	20W	40W	50W	100W
Input RF Connector	Coaxial K (female)				
Output RF Connector	WR28			WR34	
Size (mm)	160x200x140	275x200x150	340x270x180	180x430x493	545x475x220
Weight	4 Kg	7 Kg	15 Kg	35Kg	50 Kg

POWER SUPPLY

	10W	20W	40W	50W	100W
Operating Voltage	24 VDC to 32 VDC (optional 110/220 VAC)			Single-phase, 220 VAC	
Power Consumption	≤ 120W	≤ 220W	≤ 450W	≤ 900W	≤ 2000W

ENVIRONMENTAL

	10W	20W	40W	50W	100W
Operating temperature	-40°C to +55 °C				
Storage temperature	-50 °C to +85°C			-40 °C to +70°C	
Humidity	100%				
Rainproof ability	according to international standards				
Resistance to impact and vibration	according to international standards				
Mildew resistance, salt fog, sand dust	according to international standards				



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