

Outdoor S-Band Power Amplifier



AAMCS-AMP-2500M-2700M-50dB-46dBm

PRESENTATION

The Model Number AAMCS-AMP-2500M-2700M-50dB-46dBm is a Solid State Power Amplifier for an outdoor operating purpose in the S-band frequencies. This amplifier has been designed for antenna mount integrations and is well suited for satellite communication systems, telemetry and tracking applications. It is provided in a weatherproof enclosure with a complete power supply, a filter and a microcontroller card. Output saturated power reaches 46 dBm typically, with a minimum gain of 50 dB \pm 1 dB on the total bandwidth. Input/output VSWR is 1.3:1/1.4:1 max. This RF module requires an input voltage of 220 Vac(\pm 10%)/50 Hz. This amplifier is able to operate in safety stand alone mode in extremely varying environment from -40 °C to +60 °C. It is equipped with SMA-K and N female connectors type in input and output respectively.

FEATURES

- Operation from 2500 MHz to 2700 MHz
- Minimum Gain 45 dB
- Minimum output power of 45 dB
- Noise Figure 6 max
- Design for convenient integration
- Entirely self-contained
- Control system module

SPECIFICATIONS

Electrical specifications	Measuring Conditions	Specifications
Bandwidth	-	2500 MHz - 2700 MHz
Output power	@P1dB	Min. 45 dBm Typ. 46 dBm
Gain	-	Min. 45 dB Typ. 50 dB
Bandwidth ripple	On the total bandwidth	\pm 1 dB
Gain Slope	/50 MHz	Max. \pm 0.5 dB
Gain stability	@25 °C \pm 5 °C	\pm 0.25 dB dB/24h
Gain control	Step: 0.1 dB	30 dB
Input VSWR Output VSWR	-	Max 1.3:1 Max 1.4:1
Intermodulation distortion	@P1dB -4 dBm	Max. -28 dBc
Spurious Signal	Pout = 45 dBm	Max. -70 dBc
Consumption	@Pout = 45 dBm	Max. 300 W
Length \times Width \times Height	-	270 \times 360 \times 150 mm

Specifications are subject to change without notice

AVAILABLE OPTIONS

- Remote control by RS 485
- Module alarms
- 1+1 redundant configuration
- Custom specification

OTHER FREQUENCY RANGE AVAILABLE

- We can design from this basis, a custom product to fulfil your requirements