High Power, Rack Mount, UHF Band Amplifier

High Power Pulsed or CW Amplifier

Aethercomm Model Number SSPA 0.35-0.50-1000-RM is a high power CW or pulsed RF amplifier that operates from 350 to 500 MHz in a rack mounted configuration. This rack mount product is capable of operation from VHF to UHF in bands. Please contact the factory with any questions that you may have about options. It is packaged in a 5u high, 19 inch rack mounted enclosure. This amplifier has a typical output power of 1000 watts at P3dB. This amplifier offers a typical small signal gain of 65 dB with a typical gain flatness of ± 0.5dB. Input and output VSWR is 2.0:1 maximum. This RF rack mounted amplifier operates from 230VAC,
3 phase power but can be configured to operate from any AC voltage specified. There are forward and reflected power RF sample ports. Test data can be found on page two of this data sheet.

The output is fully protected from an infinite VSWR at the RF output port. The input RF connector is type N Female. The output RF connector is a 7/16's female. The RF sample ports are SMA female. There is a RF enable switch on the front panel of the amplifier. Contact the factory with any questions on the performance or capabilities of this amplifier. There is a complex thermal management system to cool the internal circuitry.

- **Operation from 350 MHz to 500 MHz min**
- **1000 Watts Peak Output Power Typical**
- **230 VAC, 3 Phase Operation**
- **Multiple BIT and Protection Features on Rack**

This is an example of an Aethercomm standard product. Aethercomm designs and manufactures high performance, high power CW or pulsed SSPA's for commercial, military and satellite communications customer.

Aethercomm, Inc.
2910 Norman Strasse Rd., Ste. 105 | San Marcos, CA 92069 | Tel 760.598.4340
Fax 760.598.4342 | Web: www.aethercomm.com | email: sales@aethercomm.com

SSPA 0.35-0.50-1000-RM Typical Performance @ 25°C

Freq (MHz)	CW Output Power @ P3dB (dBm)	230 VAC Current at P3dB (Amps AC)	Small Signal Gain (dB)
350	58.5	9.8	65.5
387	59.0	9.5	66.0
425	60.7	10.9	66.5
462	60.7	9.8	66.5
500	60.7	8.6	66.6

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