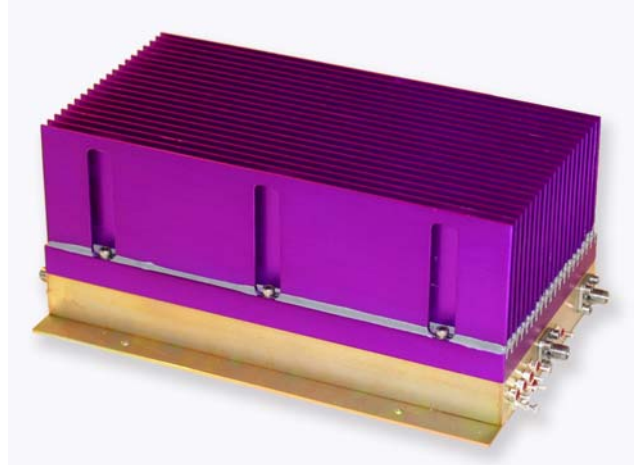


The **SM1923-44** is a solid state GaAs amplifier designed primarily for the Personal Communication Systems (PCS) market. This amplifier operates from 1.9-2.3 GHz, provides 55 dB of gain,  $\pm 0.5$  dB gain flatness over the full band, and +44 dBm of output power at its 1 dB compression point. The output third order intercept point is +55 dBm. Its compact size and high linearity make it ideally suited for systems using CDMA or TDMA standards. The unit is available standard as a module with six (6) thru-holes. Modular heatsink or 19" rack versions are available.



### Features

- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation

### Options

- Forward/Reverse Power Detection
- RF Sampling
- Pulse Control with switching speeds up to 100 kHz
- Logic On/Off Control
- Integral Heatsink

Parameter	Specification
Frequency Range	1.9 - 2.3 GHz (in 100 MHz Bands)
Pout (P1dB)	+ 44 dBm
Third Order Intercept Point	+ 55 dBm
Linear Gain	55 dB $\pm$ 1 dB
Gain Flatness over Full Band	$\pm .5$ dB
Gain Change over Temperature	$\pm .5$ dB
Input/Output Return Loss	-16 dB / -16 dB
DC Input Voltage	+ 12 Volts
DC Input Current	7.5 Amps. (operational)
Mechanical Dimensions Without Heatsink	7.5 x 4.0 x 0.8 Inches
RF Connectors	SMA Female
Operating Temperature	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

