

Model SM2023-41

2000-2300 MHz 12 Watt Linear Power Amplifier FOR UMTS APPLICATIONS

The SM2023-41 is a 2.0 to 2.3 GHz solid state GaAs amplifier designed for the Mobile Telecommunication Universal Systems (UMTS) market. The amplifier provides 55 dB of Linear Gain with a Gain Flatness of \pm 0.5 dB, +41 dBm of Output Power at P1dB, and an OIP3 of +51 dBm. using the latest surface mount Bv technologies, this small amplifier can easily fit into tightly packed transmitters and repeaters. The unit is available in modular form (standard), or as a rack mountable amplifier.

Features

- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation
- Integral Output Isolator

Options

- Forward/Reverse Power Detection
- RF Sampling
- Logic On/Off Control
- Integral Heatsink



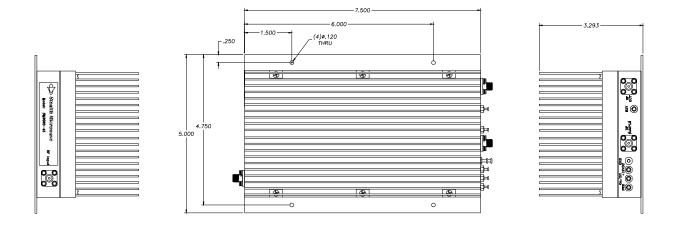
Specification
2.0 – 2.3 GHz (100
MHz bands)
+ 41 dBm (min.)
+ 51 dBm
$55 \text{ dB} \pm 1 \text{ dB}$
± .5 dB
± .5 dB
-16 dB / -18 dB
+ 12 Volts
4.5 Amps
20 dB (min.)
× ,
7.5 x 5.0 x 3.3 inches
SMA Female
0°C to +55°C
95% Non-condensing
Up to 10,000 feet
above Sea Level



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DIMENSIONS IN INCHES



Pin	Description	Values
RF Input	Input Connector (SMA Female)	-13 dBm, typical
RF OUT	Output Connector (SMA Female)	+ 41 dBm @ P1dB
RF SAMPLE	Sample RF Port (SMA Female)	30 dBr
GND	Ground Turret	
REV	Reverse Power Detector	∞ VSWR @ + 38 dBm \approx + 2.5 Volts
FWD	Forward Power Detector	+ 38 dBm Output Power \approx + 2.5 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 4.5 Amps (typ.)
On/Off	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On

Specifications subject to change without notice.