

# VBM2560-1

## 2500MHz-6000MHz 1W Amplifier

- High reliability proven GaAs design
- Class A for maximum mismatch drive
- General linear power requirements

The **VBM 2560-1** module generates in excess of 1W over an instantaneous frequency range of 2.5-6.0GHz. It incorporates balanced stages throughout, for high stability and good port VSWR. The design is based on GaAs technology, and incorporates an internal negative voltage generator



### Specifications

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#### Electrical

<b>Frequency range</b>	2500-6000MHz
<b>Supply Voltage</b>	12VDC Nominal
<b>Supply Current</b>	1.4 A Max
<b>Small Signal Gain</b>	32dB Min
<b>Saturated Output Power</b>	30.8dBm Min
<b>Gain Flatness</b>	±2dB Max
<b>Input Return Loss</b>	10dB Min
<b>Output Return Loss</b>	10dB Min
<b>1dB Gain Compression</b>	30 dBm Min
<b>Third order Intercept Point</b>	40dBm Typical
<b>Harmonics at 1W (30dBm)</b>	-20dBc Max
<b>Dimensions</b>	130x101x47mm
<b>Operating Temperature Range</b>	0-50°C

#### Notes

- 1 The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.
- 2 Output VSWR tolerance is specified for excitation within the permitted levels and frequency range