

# Hwa Yao Technologies Co., Ltd

## 華耀科技有限公司

NO.6 ,Ln.48, Nansing Rd., Yong Kang City, Tainan County 710, Taiwan, R.O.C.

Email: [sales@hwayaotek.com.tw](mailto:sales@hwayaotek.com.tw) <http://www.hwayaotek.com.tw>

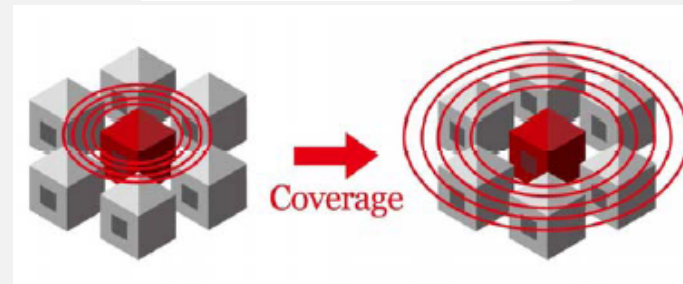
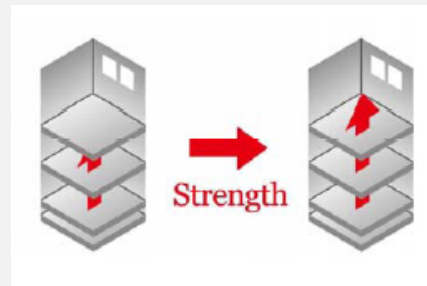
TEL: +886-6-2712809 FAX : +886-6-2712870



## Power Booster - Fix Gain Booster 1000m/W (PBF-2450-10)

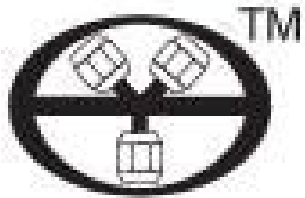


- Applied “802.11g Turbo Mode” data rate speeds up to 108Mbps
- Tx max output power up to 1W (30dBm) in 802.11g/54Mbps
- Tx average output power up to 30dBm with excellent signal linearity (EVM<4.5%)
- Very low power consumption down to 4Watt with 1W RF output power
- Frequency coverage from 2.3GHz to 2.5GHz.



### Dimensions

Size	L68 x W36 x H15 mm
Weight	70g
Supply Current	1.3A max, Vcc=5V @1W Power Output



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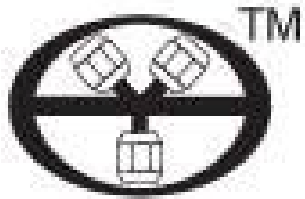
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Category	Item	Description
<b>Receive Specifications</b>	Receiver Gain	12 dB typ
	Noise Figure	3.5 dB typ.
	Linear Operation	Pin < -12dBm
	Tx/Rx Switch Time	< 0.5 $\mu$ s
	Supply Current	< 20mA, Vcc=5V
<b>Absolute Maximum Ratings</b>	VDD	5.25V
	Input Power(Radio Port)	+20dBm
	Input Power(Antenna Port)	+1dBm
	Operating Temp	-40 ~ +65C
	Storage Temp	-40 ~ +85C
<b>General</b>	Dimensions	68x36x15mm
	Material	Plastic
	RF Connector	Amplifier: SMA female (RP) / SMA female (RP)
	Operating Temp.	-40 ~ +60C



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Category	Item	Description
<b>Transmit Specifications</b>	Frequency coverage	2.3~2.5GHz
	Operating Mode	Bi-Directional TDD (Time Division duplex)
	Max Output power	34dBm / 2W
	Average Output Power	27+2dBm in 802.11g/54Mbps 29+2dBm in 802.11g/36Mbps 32+2dBm in 802.11g/18Mbps 30+2dBm in 802.11b/11Mbps
	Tx Input Power	1dBm ~ 18dBm
	RF Input Power for Turn-On	>1dBm
	Rx to Tx Switch Time	<0.5μs
	Supply Current)	1.3A max, Vcc=5V @1W Power Output