

**Dual GSM Amplifier  
xxx Band, 200 Watts Peak Power  
PART NUMBER: BW-xxxx-45-80**

<b>Parameter</b>	<b>Specifications</b>
Frequency (xxxx), MHz	0806: 791-821 MHz 0881: 869-894 MHz 0942: 925-960 MHz 1842: 1805-1880 MHz 2140: 2110-2170 MHz 2655: 2620-2690 MHz
Pout, maximum	49 dBm (80 Watts)
Peak Power	53 dBm
Output Power Linearized	47 dBm, 50 watts
ACPR, 5 MHz WCDMA PAR 7.5 dB 50W watts	<-40 dBc @ 5 MHz <-55dBc @ 10 MHz
5/10 MHz LTE	ACP <-13 dBm at 5/10 MHz 100 kHz RBW
IMD, GSM 4-tones, 50W ave	-45 dBc
RF Gain	45 ± 0.5 dBm, adj
RF Gain over freq range	± 0.5 dB
RF Gain vs. temp.	± 0.5 dB
DC Current @ 28V	4.5 A max at 50W avg RF power
Operating Temperature	-30°C to + 80°C Base Plate Temperature
Cooling	Thru Base Plate
Package	P-8040
Connectors	sma female for RF 9pin D-Sub female, 2pin Molex 0428202222 for DC power
Harmonics	-45 dBc
Input/Output Return Loss	18 dB min. (50 ohms)

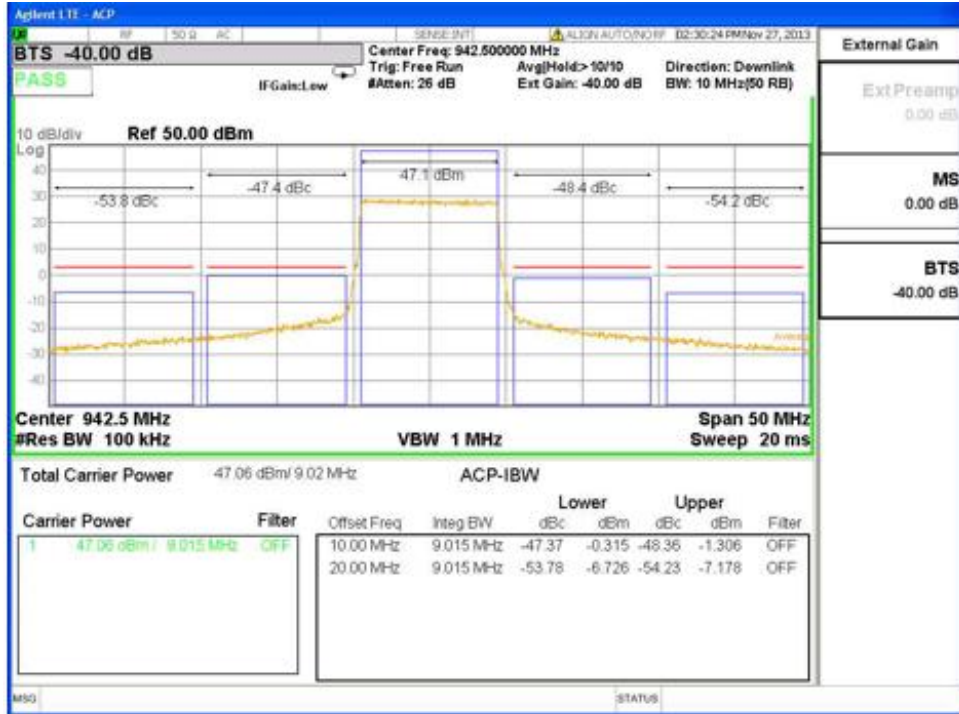
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**I/O Interfaces  
Control & Alarm (9 Pin D-sub female Connector)**

<b>Pin Number</b>	<b>Function</b>	<b>Description</b>	<b>Remarks</b>
1	Reverse Power Detection	1 - 4 Vdc (0.12 V/dB step) analog detector voltage for power levels of 20 dBm - 45 dBm (1V = 35dBm, 1.7V = 47 dBm).	
2	Output Power Detection	1 - 4 Vdc (0.12 V/dB step) analog detector voltage for power levels of 20 dBm - 45 dBm (1V = 20dBm, 4V = 45 dBm).	
3	Enable	The amplifier is enabled with this pin is pulled low	Pulled up internally thru 10k to 5V
4	Over Power	A TTL output indicated the output power is more than 49 dBm	
5	VSWR Alarm	A TTL output indicated the reverse power is more than 30 dBm	
6	GND		
7	GPIO	Optional Input/Output	
8	Overtemperature alarm	If heat sink temperature exceeds 85°C, the High Temperature Alarm will occur and HPA will disable automatically. The HPA will re-start after temperature drops to 70°C.	
9	Input Power Detection	1 - 4 Vdc (0.12 V/dB step) analog detector voltage for power levels of 20 dBm - 45 dBm (1V = xxdBm, 4V = xx dBm).	

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**50W LTE Waveform, 8.6 dB PAR**



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**Package Drawing**

