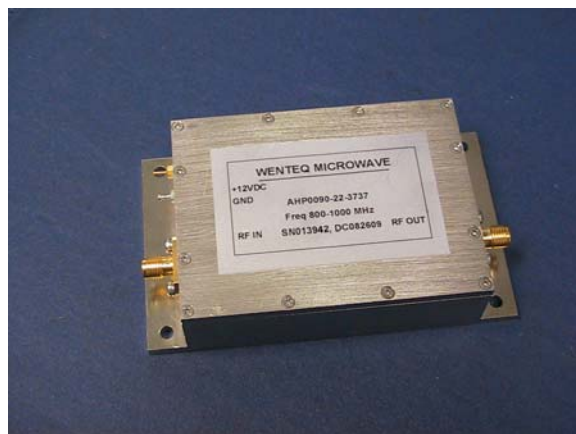


Features:

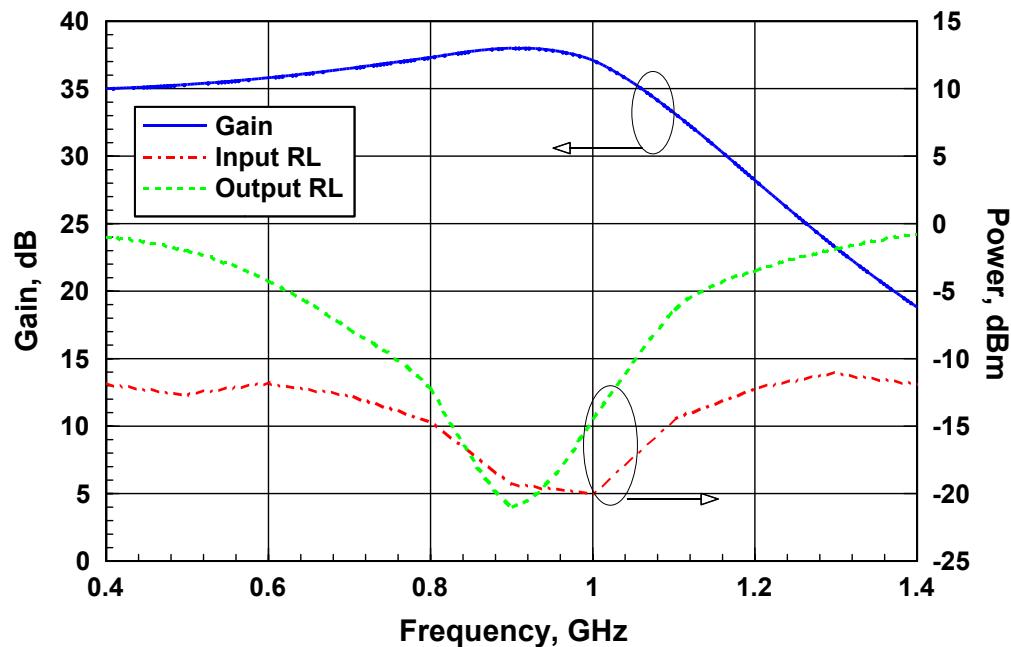
- High power output, 5 Watt minimum P-1dB power output
- Good VSWR, unconditional stable
- Class AB operation, DC to RF conversion efficiency up to 40%, low power consumption
- SMA female connector RF input and output, feedthru PIN for DC power input
- Operating temperature -20~+65°C, storage temperature -45~+125°C



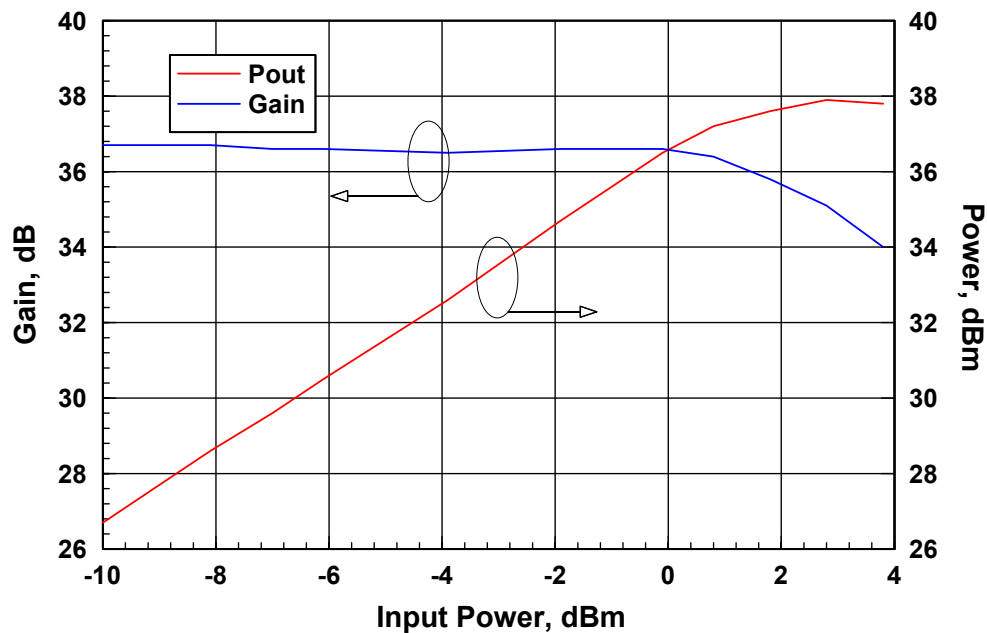
Electrical Specifications

Parameters	Units	Specifications		
		Minimum	Nominal	Maximum
Frequency Range	MHz	800		1000
Li near Gain	dB	-35.0	+37.0	+40.0
Gain Flatness	dB		+/-0.5	+/-1.0
Gain Variation over Operating Temperature	dB		+/-1.5	
P-1dB Compression Point	dBm	+37.0	+38.0	
Output IP3	dBm	+37.0	+50.0	
Input VSWR	-		1.4:1	1.6:1
Output VSWR	-		1.6:1	1.9:1
Spurious	dBc			-60.0
Operating Temperature	°C	-20.0		+65.0
Survival Temperature	°C	-45.0		+125
DC Power Supply	V	11.5	12.0	+12.5
Quiescent DC Current	mA		420	500
DC Current at P-1dB power	mA		1250	1500
In/Out connectors		SMA-type female		
Size	inches	3.80×2.25×0.85		

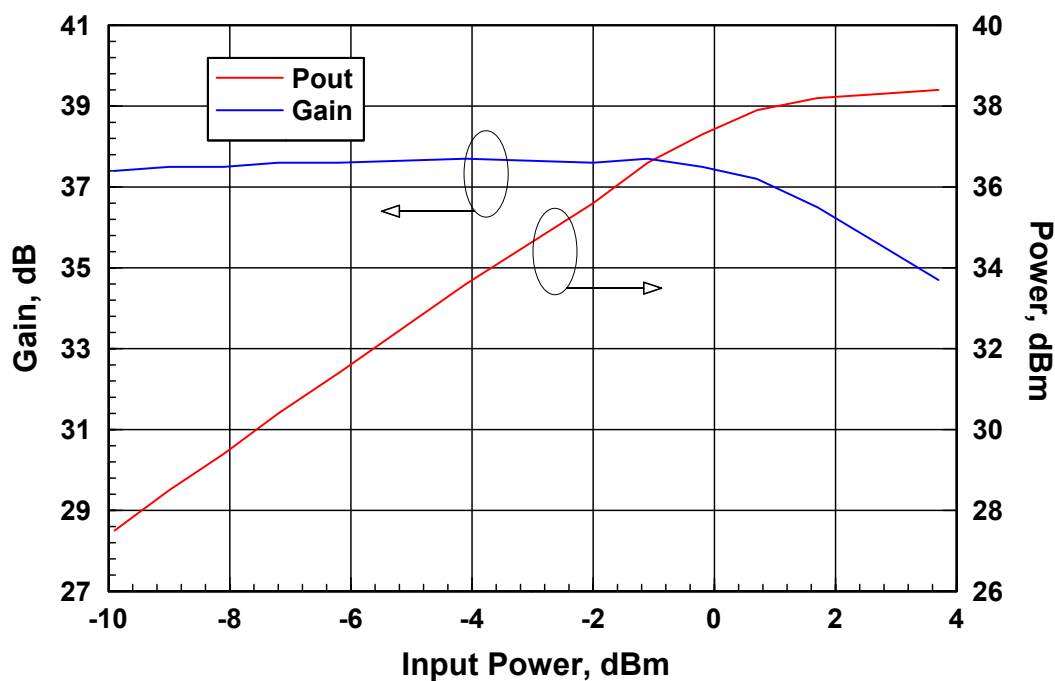
AHP0090-22-3737 Measured Linear Gain and Return Loss vs Frequency



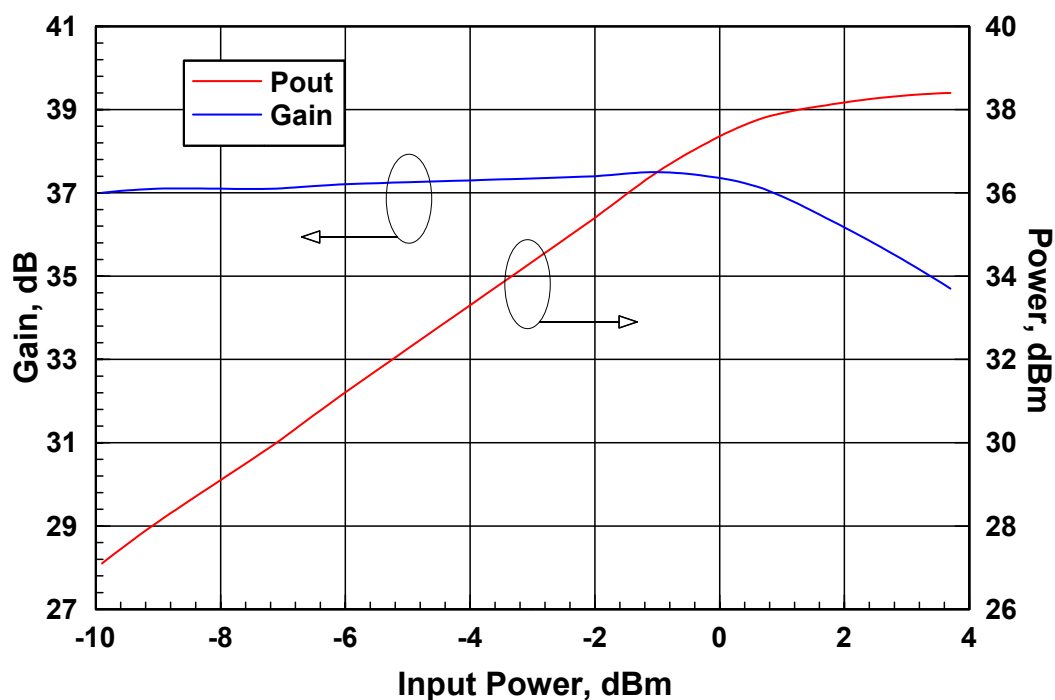
AHP0090-22-3737 Measured Gain and Output Power vs Input Power
Test Frequency: 800MHz



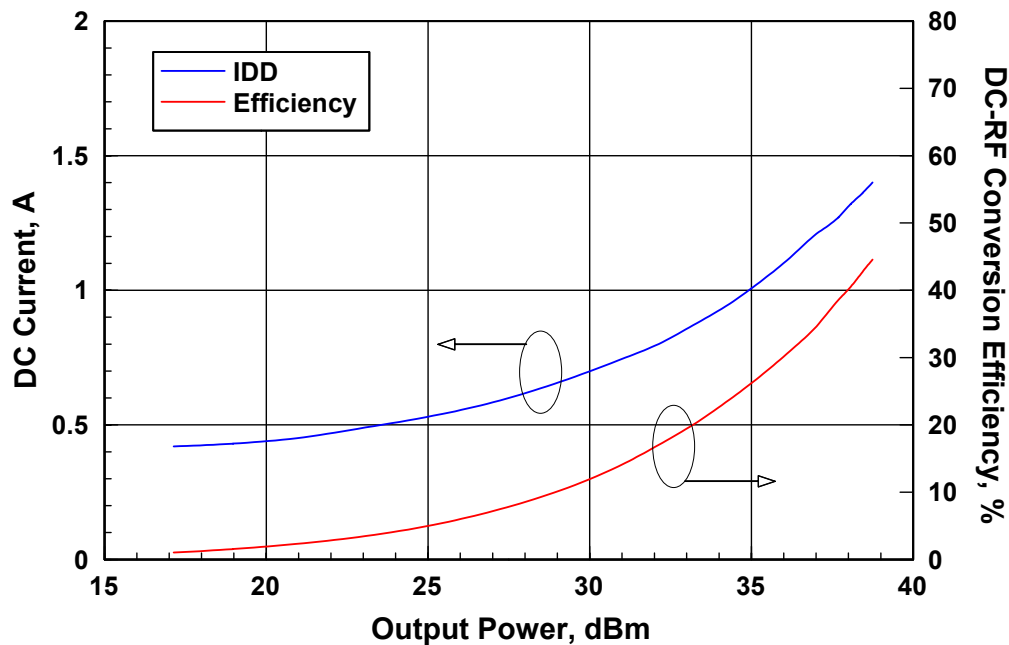
AHP0090-22-3737 Measured Gain and Output Power vs Input Power
Test Frequency: 900MHz



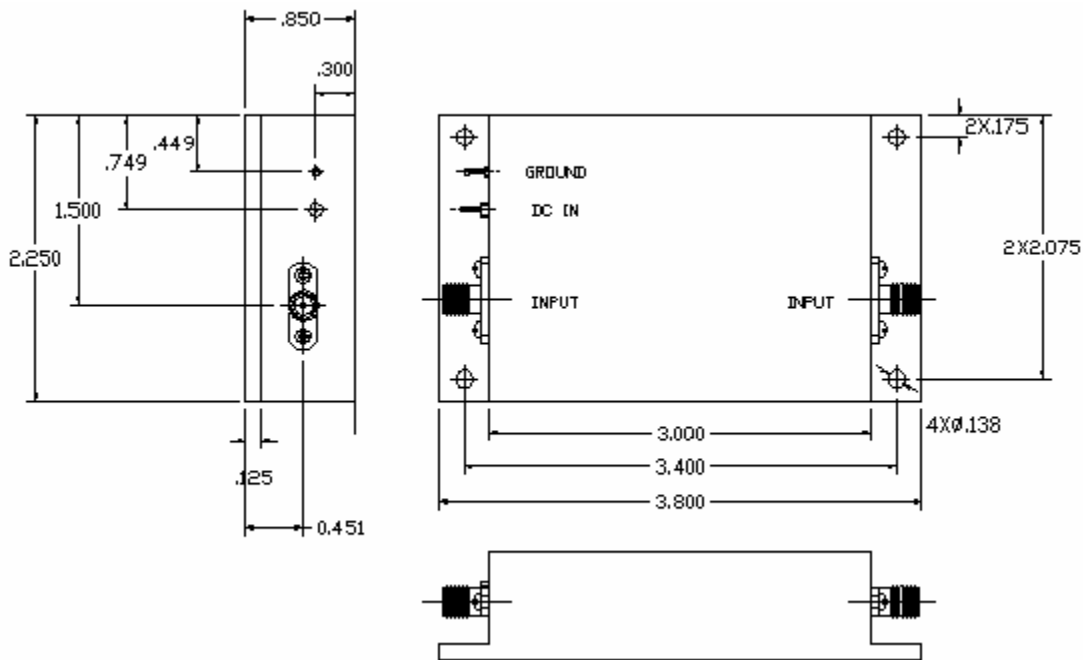
AHP0090-22-3737 Measured Gain and Output Power vs Input Power
Test Frequency: 1000MHz



AHP0090-22-3737 DC Current and Efficiency vs. Output RF Power
Test Frequency: 900MHz



Mechanical Structure:



Note: All units in inches.

Absolute Maximum Ratings

DC Voltage	+13V
RF Input Power	+15dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+75°C