# PHA2729-240M



# Radar Pulsed Power Module, 240W 2700MHz to 2900MHz, 100µS Pulse, 10% Duty

Released—11-04-2002

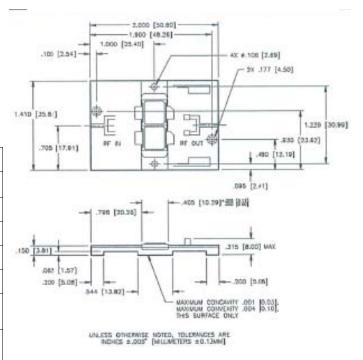
### **Features**

- In-phase combined pulsed power transistors
- Input and output matched to 50 Ohms
- Soft substrate circuit board
- Nickel plated copper flange
- Easily combined for high power transmitters
- MTTF>1x10<sup>6</sup> hrs at Tflange=45°C

### **ABSOLUTE MAXIMUM RATINGS AT 25°C**

Parameter	Symbol	Rating	Units
Supply Voltage	Vcc	40	V
Input Power	Pin	55	Wpk
Output Power	Pout	325	Wpk
Thermal Resistance	θ <sub>JC</sub>	0.35	°C/W
Total Power Dissipation	P <sub>D</sub>	500	W
Operating Case Temp.	T <sub>C</sub>	-30 to +100	°C
Storage Temp.	T <sub>STG</sub>	-40 to +125	°C

### **Product Image**



### **ELECTRICAL CHARACTERISTICS AT 25°C**

Parameter	Symbol	Min	Max	Units	Test Conditions
Input Power	P <sub>IN</sub>	-	44	Wpk	V <sub>CC</sub> = 36V, P <sub>out</sub> =240Wpk, F=2.7, 2.8, 2.9GHz
Collector Current	lc	-	16.97	Α	V <sub>CC</sub> = 36V, Pout =240Wpk), F =2.7, 2.8, 2.9GHz
Input Return Loss	RL	10	-	dB	V <sub>CC</sub> = 36V, P <sub>out</sub> = 240Wpk, F =2.7, 2.8, 2.9GHz
Pulse Amplitude Droop	Droop	-	0.7	dB	V <sub>CC</sub> = 36V, P <sub>out</sub> = 240Wpk, F =2.7, 2.8, 2.9GHz
2nd Harmonic	2fc	-	-20	dB	V <sub>CC</sub> = 36V, P <sub>out</sub> = 240Wpk, F =2.7, 2.8, 2.9GHz
Insertion Phase Deviation	Δφ	-20	+20	Degrees	V <sub>CC</sub> = 36V, P <sub>out</sub> = 240Wpk, F =2.7, 2.8, 2.9GHz
Load Mismatch Stability	VSWR-S	-	1.5:1	-	V <sub>CC</sub> = 36V, P <sub>out</sub> = 240Wpk, F =2.7, 2.8, 2.9GHz
Overdrive/Load Mismatch Tolerance	OD/ VSWR-T	-	2:1	-	V <sub>CC</sub> = 36V, Pin=(Pin@P <sub>out</sub> =240Wpk)+0.6dB, F =2.7, 2.8, 2.9GHz

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Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298 Visit www.macomtech.com for additional data sheets and product information.

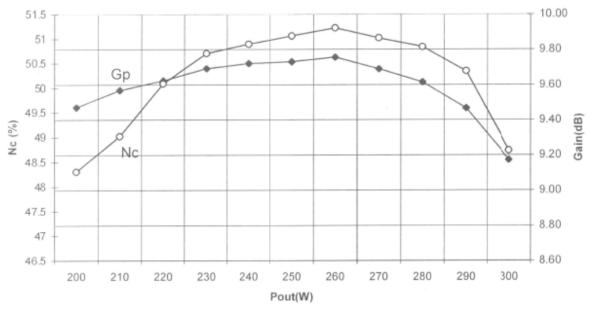


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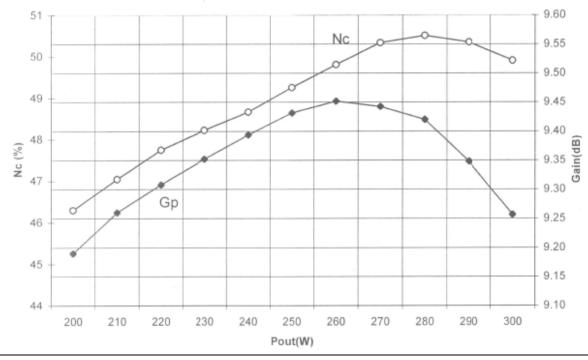
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### **Typical Performance Curves**

Collector Efficiency and Power Gain vs. Power Output Vcc=36VDC, Pulse Width=100µS, Duty=10%, 2.7GHz



Collector Efficiency and Power Gain vs. Power Output Vcc=36VDC, Pulse Width=100µS, Duty=10%, 2.8GHz



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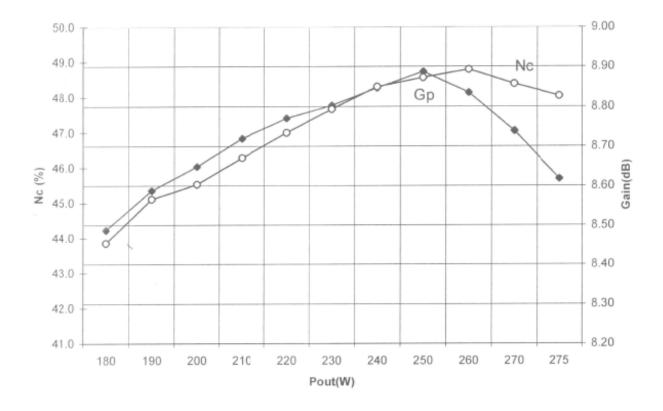
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Collector Efficiency and Power Gain vs. Power Output Vcc=36VDC, Pulse Width=100µS, Duty=10%, 2.9GHz



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