

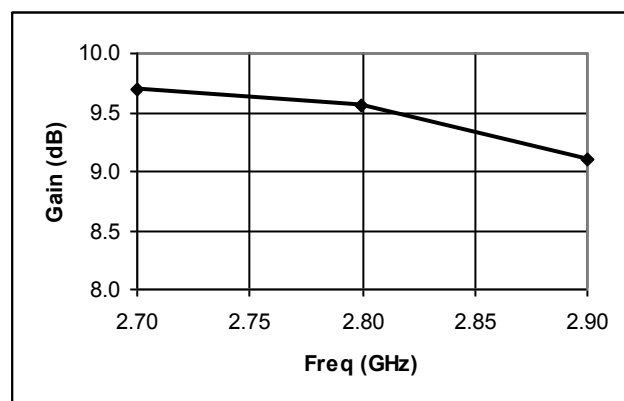
Radar Pulsed Power Transistor 170W, 2.7-2.9 GHz, 100μs Pulse, 10% Duty

Rev. V1

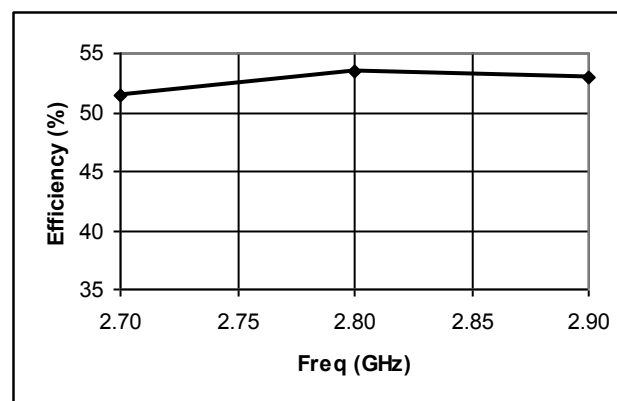
Typical RF Performance

Freq. (GHz)	Pin (W)	Pout (W)	Gain (dB)	Ic (A)	Eff (%)	RL (dB)	VSWR-S (1.5:1)	VSWR-T (2:1)
2.7	24	224	9.69	12.1	51.4	-15.6	S	P
2.8	24	217	9.56	11.3	53.4	-14.7	S	P
2.9	24	196	9.11	10.3	53.0	-10.6	S	P

Gain vs. Frequency

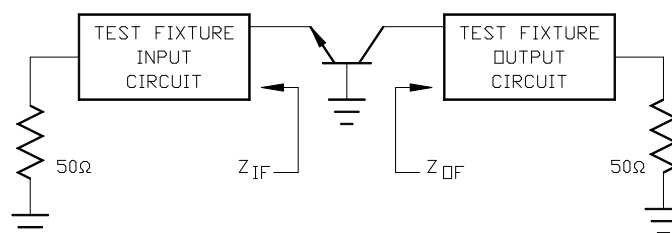


Collector Efficiency vs. Frequency



RF Test Fixture Impedance

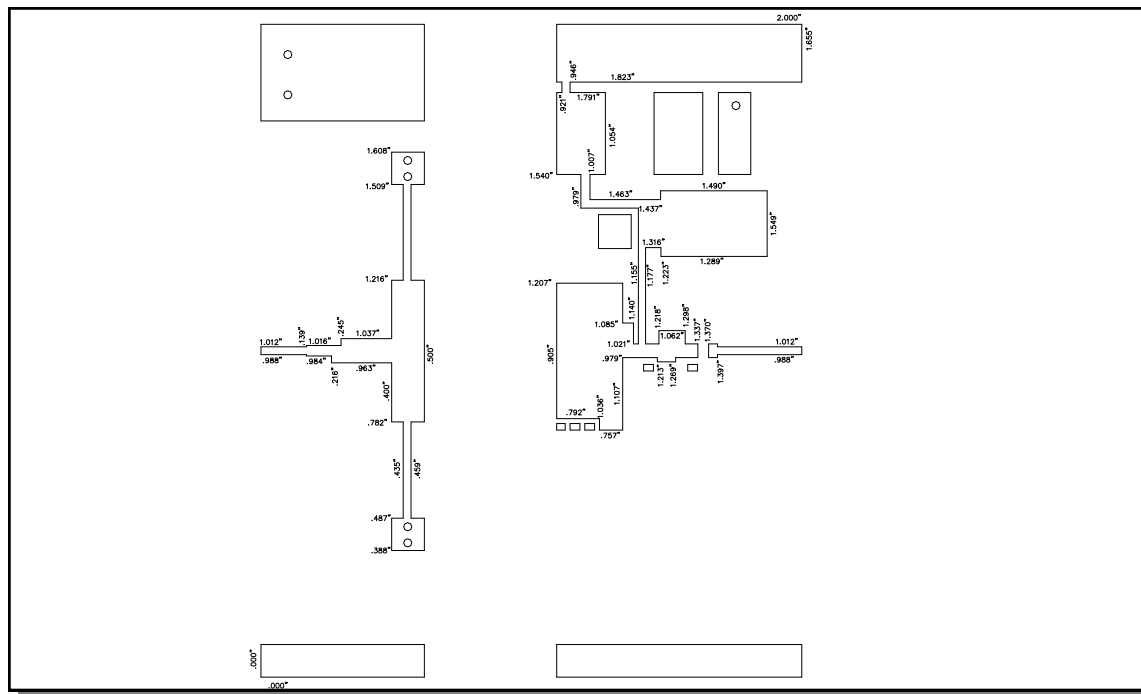
F (GHz)	Z _{IF} (Ω)	Z _{OF} (Ω)
2.7	5.1 - j5.1	1.8 - j2.1
2.8	5.2 - j4.7	1.8 - j1.8
2.9	5.3 - j4.3	1.8 - j1.4



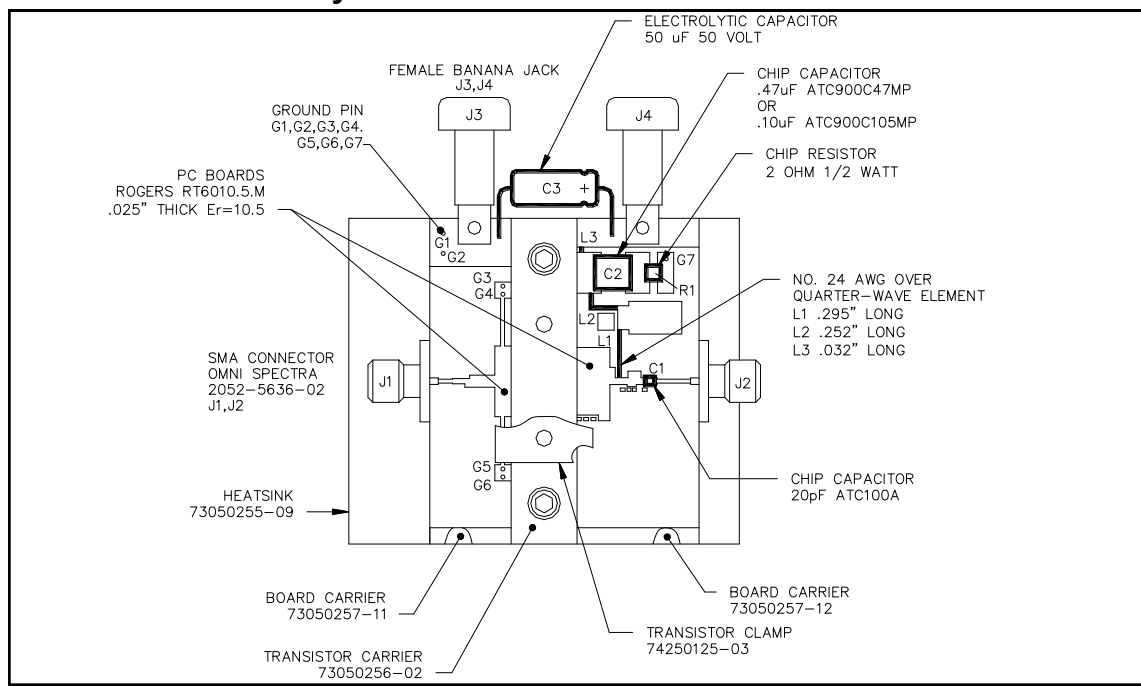
Radar Pulsed Power Transistor

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Test Fixture Circuit Dimensions



Test Fixture Assembly



Radar Pulsed Power Transistor 170W, 2.7-2.9 GHz, 100µs Pulse, 10% Duty

Rev. V1

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