



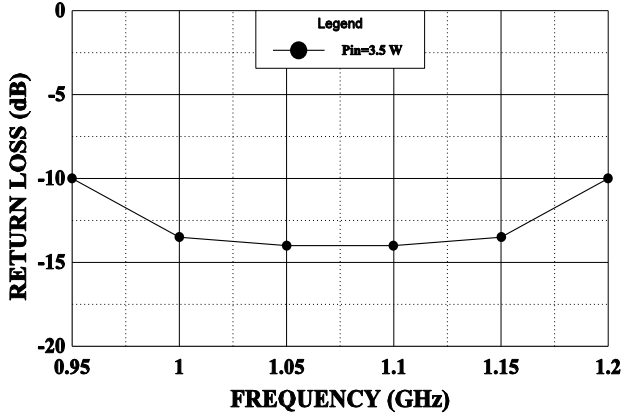


**GHZ TECHNOLOGY**  
RF-MICROWAVE SILICON POWER TRANSISTORS

0912-25

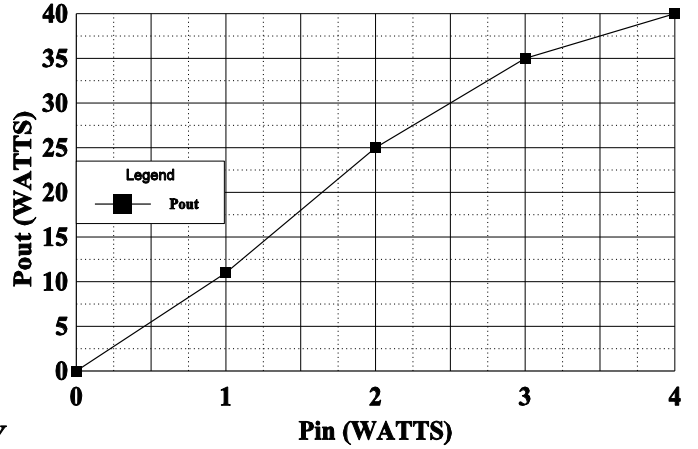
**WIDEBAND CIRCUIT INPUT RETURN LOSS**

Pin = 3.5 Watt Pk, Vcc = 50 Volts



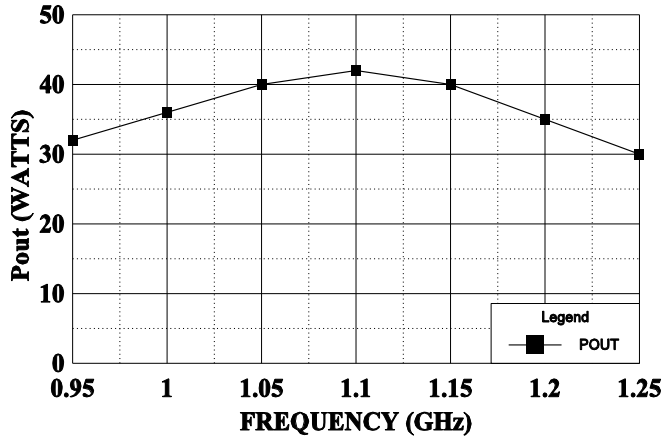
**POWER OUTPUT vs POWER INPUT**

Vcc = 50V, Frequency 1090 MHz



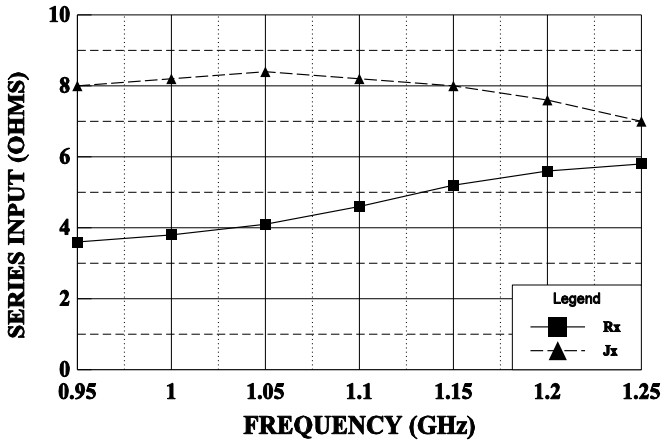
**Pout VS FREQUENCY**

Vcc=50V, Pin = 3.5 W



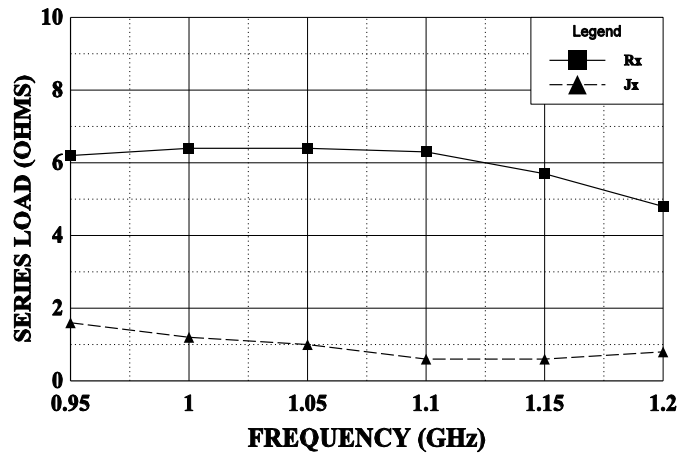
**SERIES INPUT IMPEDANCE vs FREQUENCY**

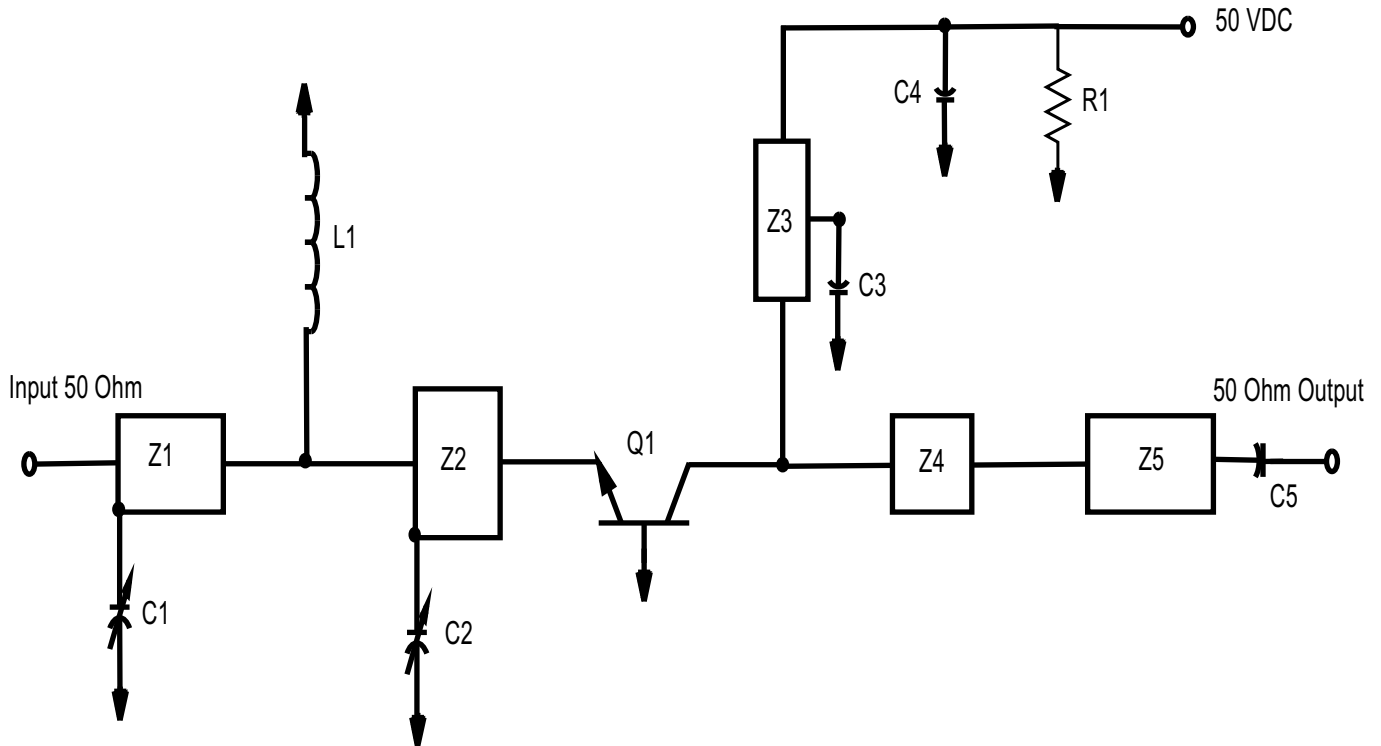
Vcc = 50 V, Pin = 1 W



**SERIES LOAD IMPEDANCE vs FREQUENCY**

Vcc = 50 V, Pin = 3.5W





PC Board Material .010" Dielectric Teflon Fiberglass

Z1=50 , .112 , .27"w X .834"L

Z2=9 , .116 , .22"w X .811"L

Z3=50 , .7 , .27"w X 1.2"L

Move along Z3 for best tuning

Z4=10 , .04 , .2"w X .28"L

Z5=18.3 , .25 , .1"w X .18"L

C1, C2=Capacitor, .35-3.5 pF piston trimmer

C3, C5=Capacitor, 47 pF "B" (100mil) ATC

C4= Capacitor, 50 mf 75V electrolytic

L1=Inductor, #18 wire 1 1/2 turns 1/4" diameter

Q1=GHz 0912-25