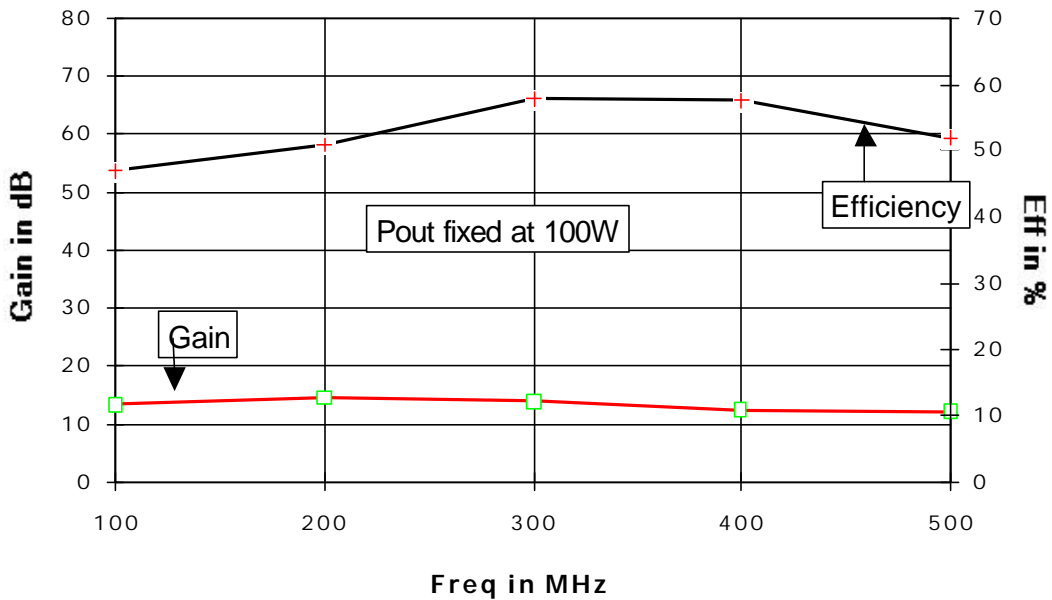
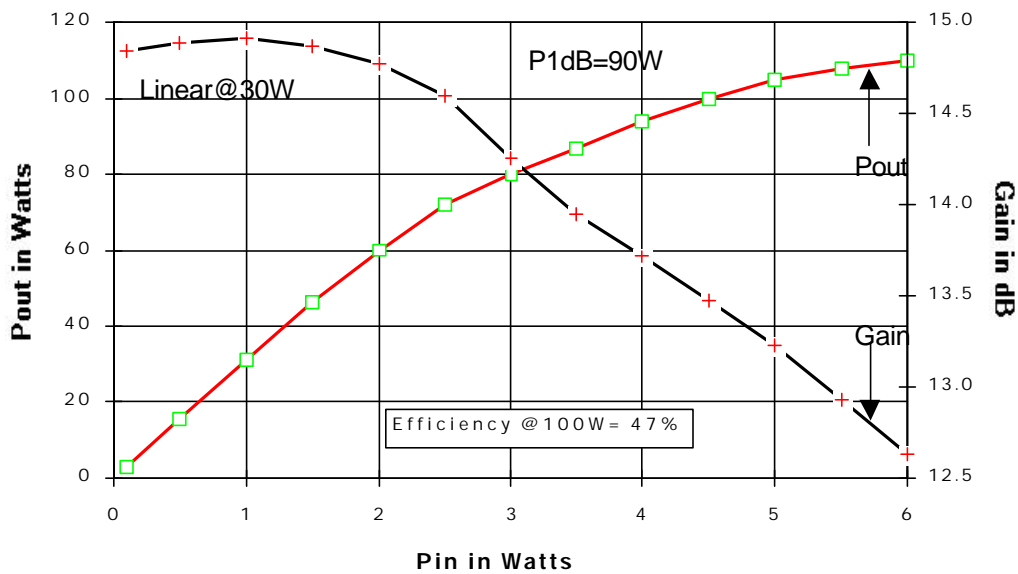
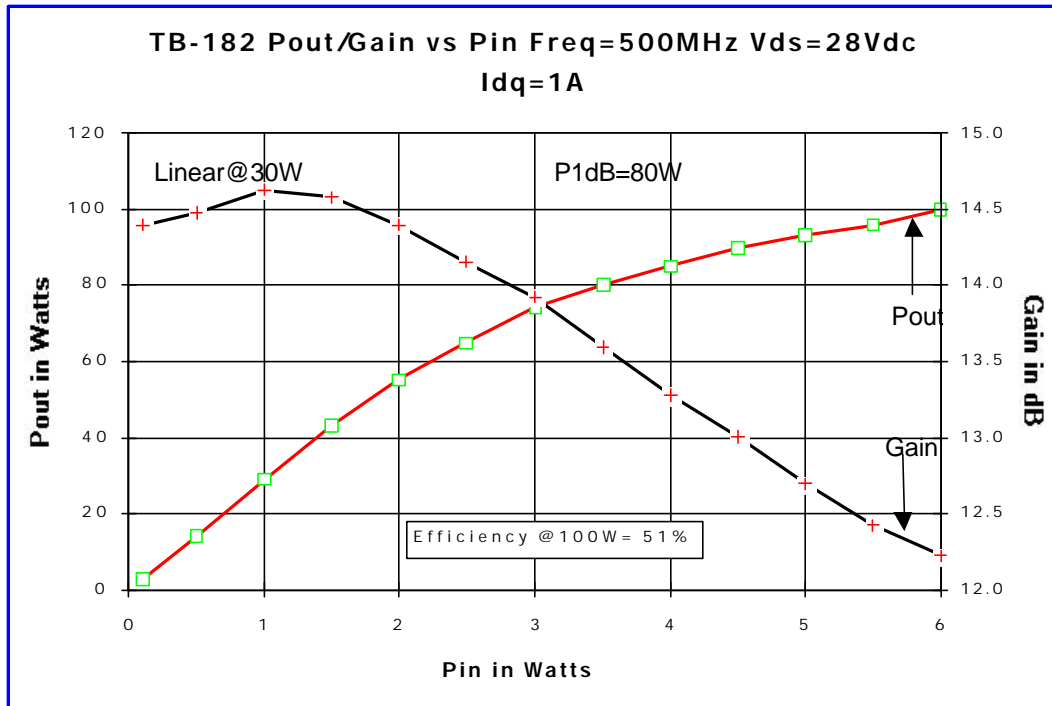
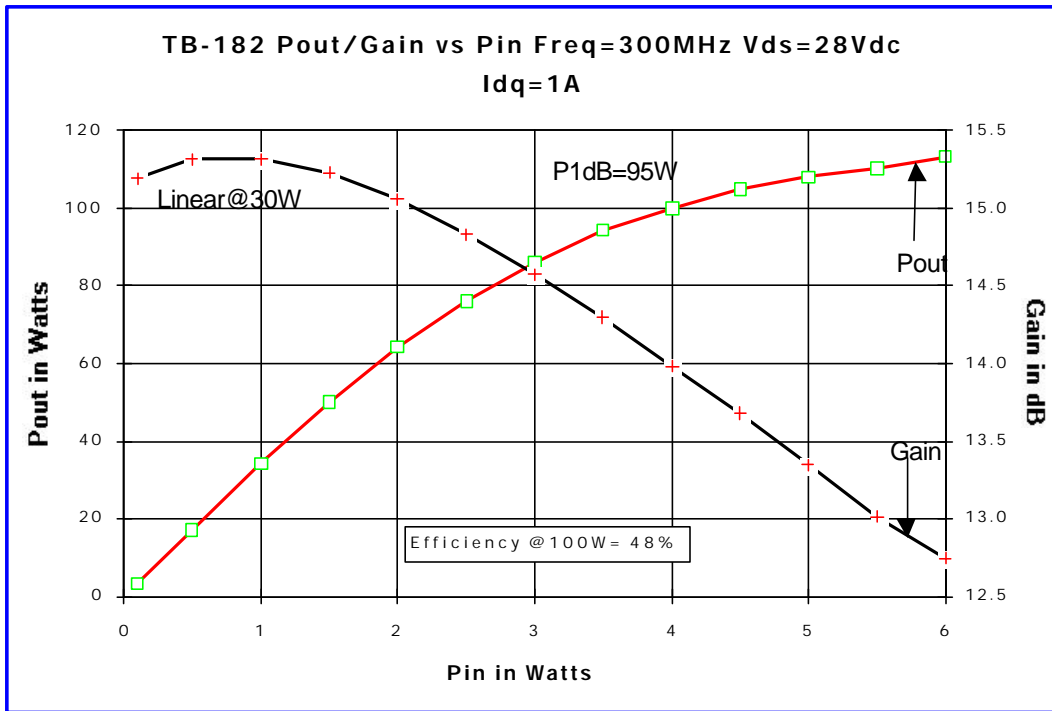


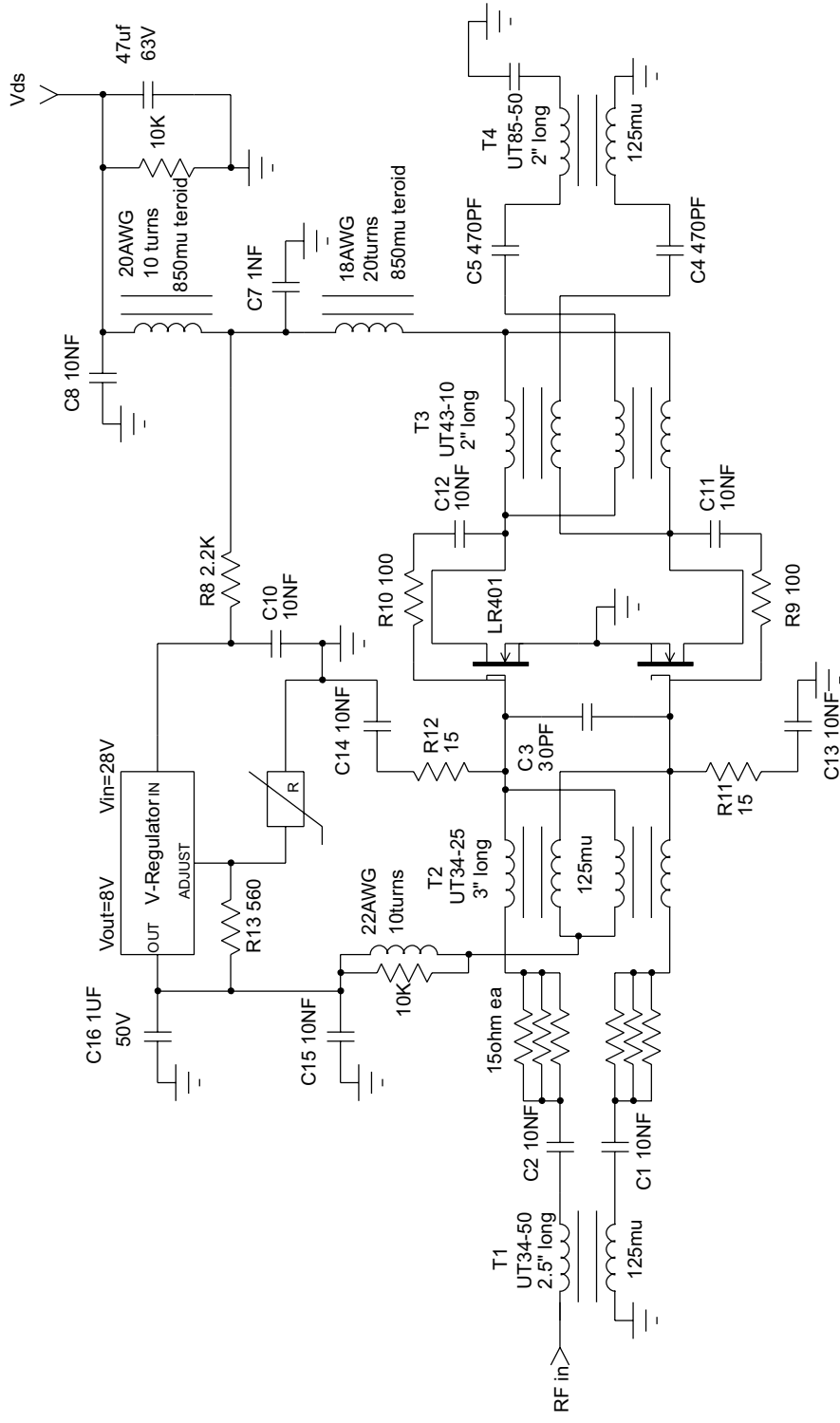
**TB-182 LR401 Gain/Efficiency vs Freq;  
Vds=28Vdc Idq=1A**



**TB-182 Pout/Gain vs Pin Freq=100MHz Vds=28Vdc  
Idq=1A**



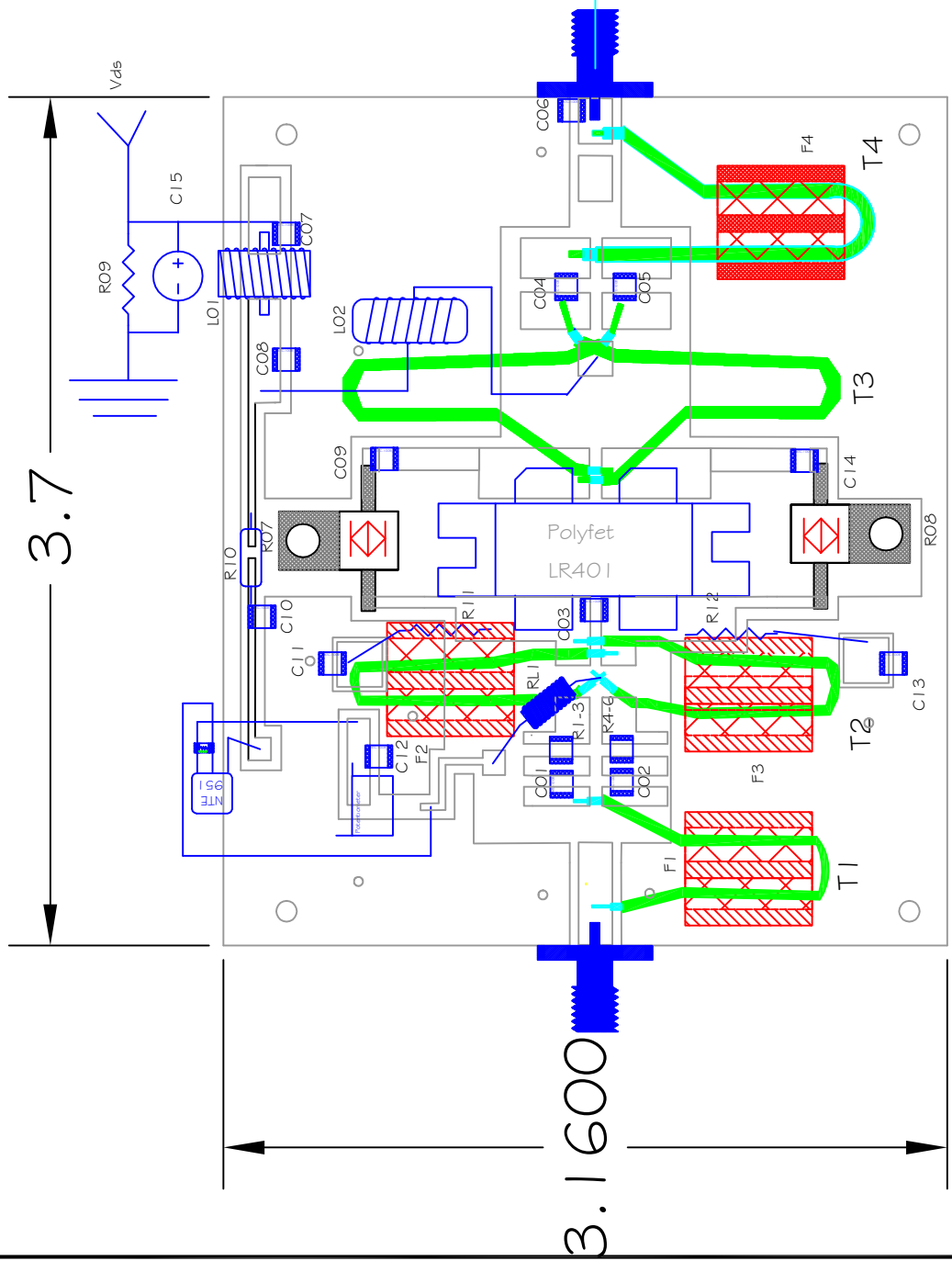




DRN BY	J.Citrolo	5/7/03	Polyfet RF Devices
CHKD	J.Citrolo	5/7/03	
ELECT	J.Citrolo	5/7/03	TB182, 100W, 100-500MHZ
MECH	J.Citrolo		
PROC			LR401 V <sub>ds</sub> =28Vdc Idq=1A
QUAL			
PGMS			
REV			

C1,2,7,9,10	ATC-200B 10nf
C1,12,13,14	ATC-200B 10nf
C03	ATC-100B 30pf
C04,5	ATC-700B 470pf
C06	ATC-100B 30pf
C08	ATC-700B 1nf
C15	47uf, 63V electrolytic
RO1-6	1210 15ohm each chip
RO7,8	20W KDI 100 ohm
RO9	1/4W axial 10K ohm
R10	1/4W axial 2.2K ohm
R11,12	1/4W axial 15 ohm
LO1	20AWG 10urns 850mu ferroid
LO2	18AWG 20turns 850mu ferroid
RL01	10K 1/4W axial, 22AWG 10 turns
Q01	LR401
Vds	28Vdc
Idq	1A

T1: UT34-50 2.5in..  
T2: UT34-25 3in..  
T3: UT43-10 2in..  
T4: UT85-50 3in..  
F4 is epoxied to copper thru pcb.



DESIGNED BY	J.Citrolo
CHKD	
ELECT	
MCH	
PRCC	
QUAL	
FORMS	
SCALE:	pcpb 1:1
SHEET	1 OF 1

**POLYFET RF DEVICES**

TB182, 100-500MHz, LR401

SIZE F50M NO. 100W, Vds=28Vdc, Idq= 1A

PCB is Teflon, H=0.032", double-sided 1 oz. copper, Er=2.5  
F1-F4= AMIDON BN-61-2102 1.25mu BINOCULAR FERRITE

This is a small signal plot of the TB182 with a LR401 running at 28Vdc and 1A

