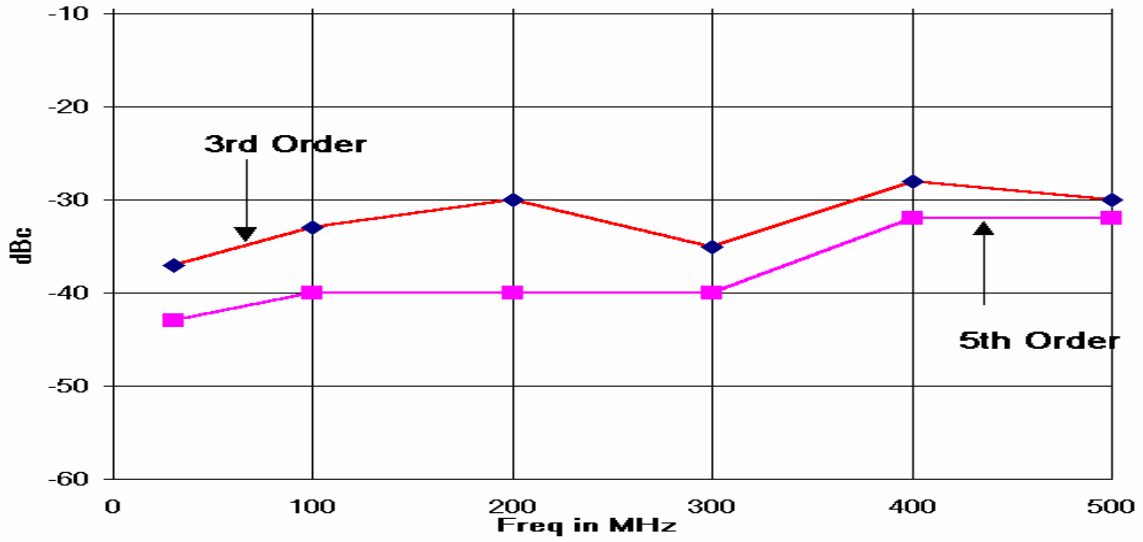
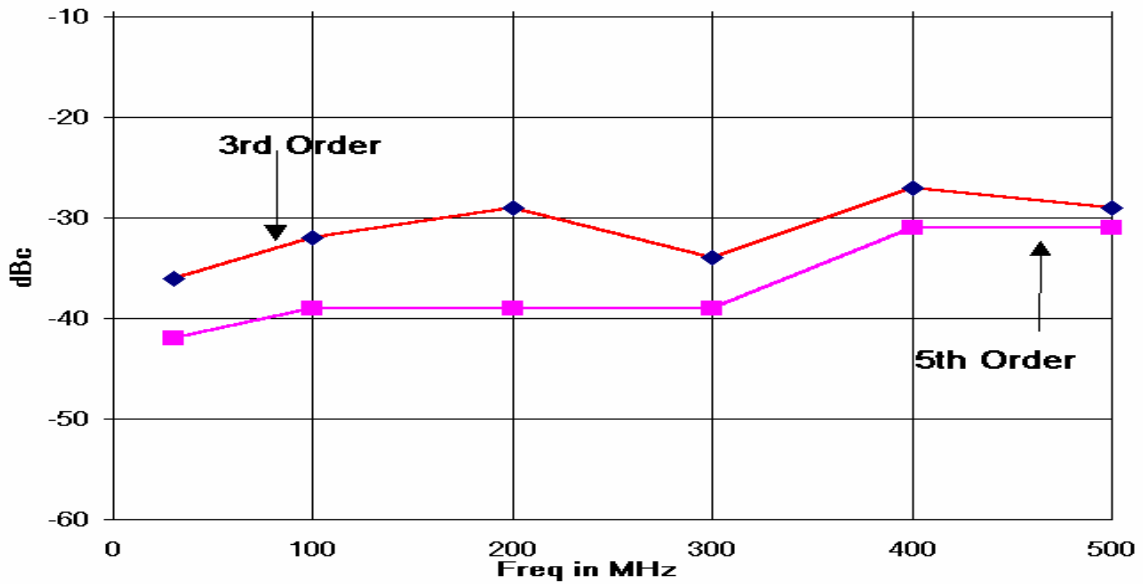


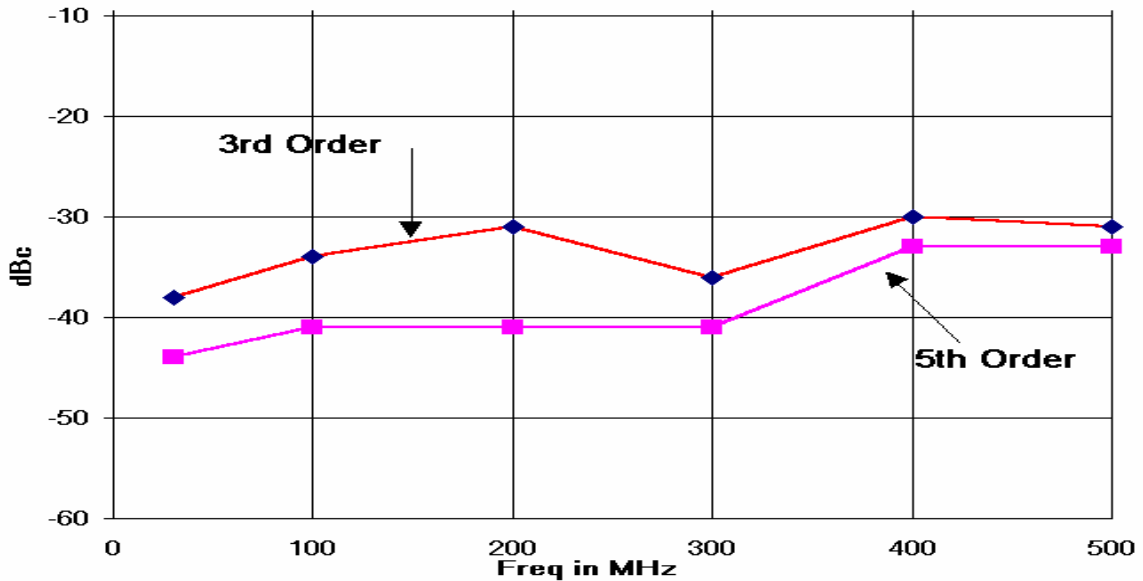
TB167B; $V_{ds}=28V_{dc}$ $I_{dq}=1.4A$, IM3 vs Freq @ 50W PEP

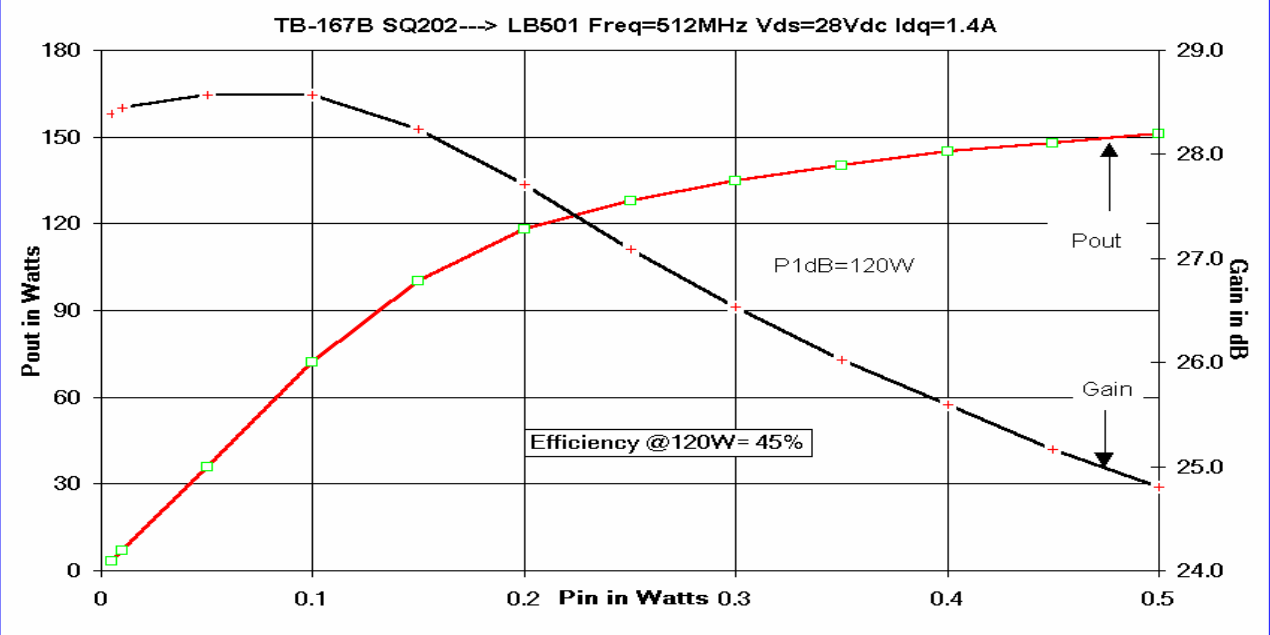
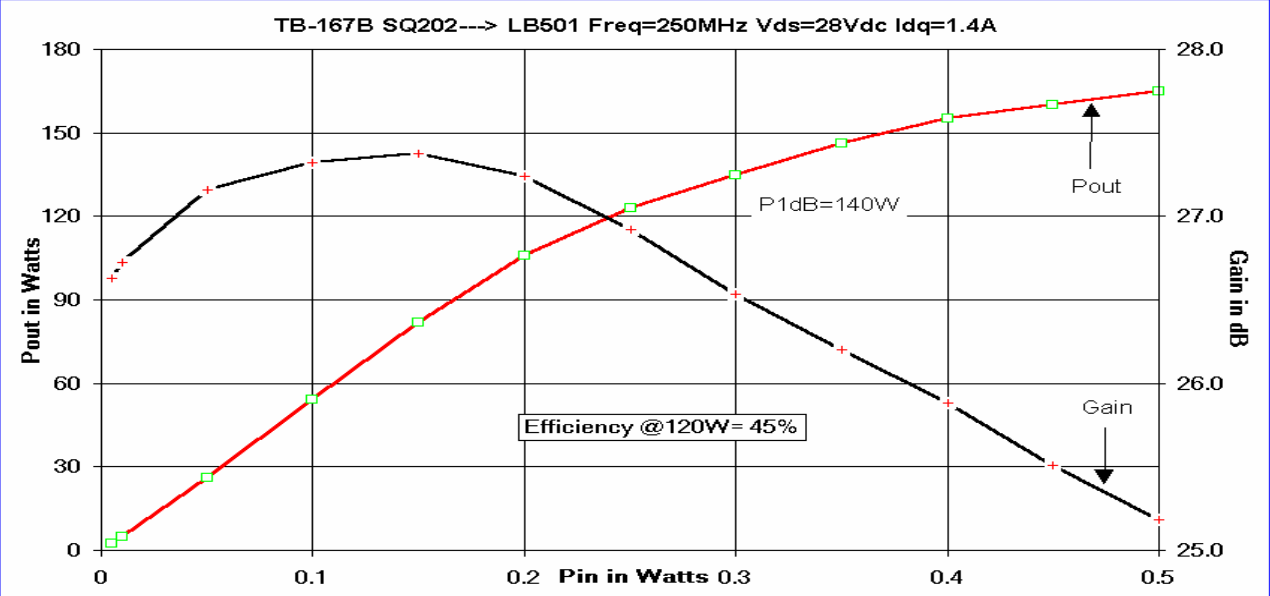
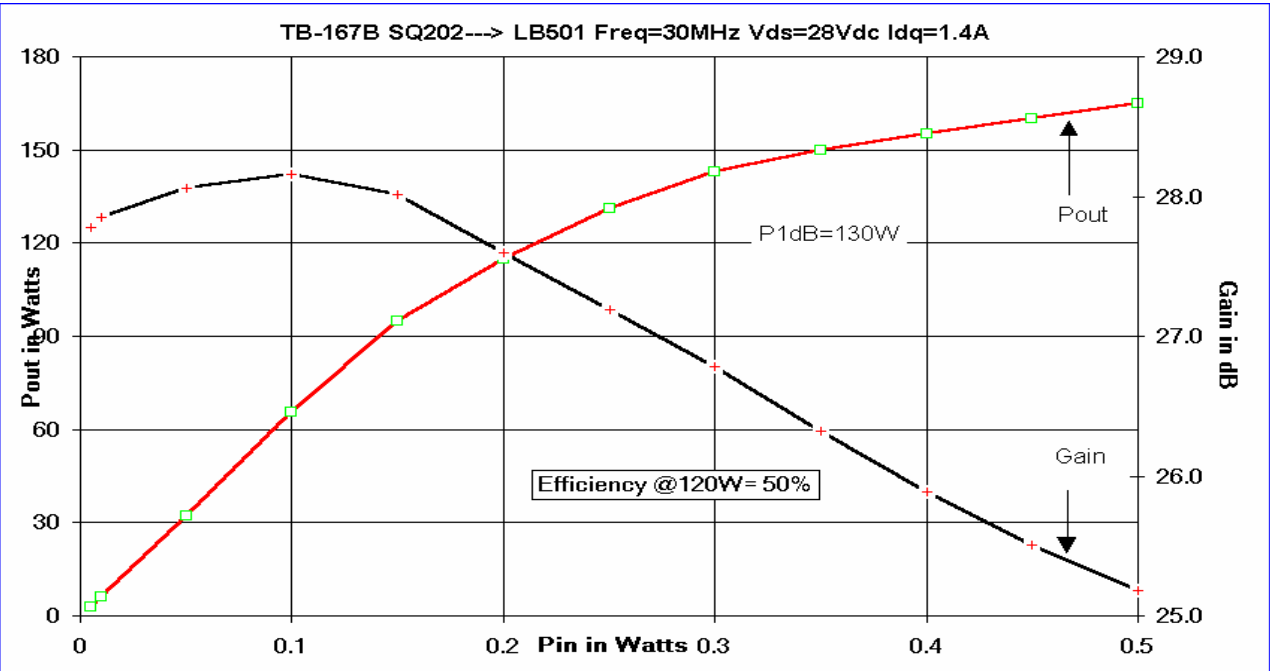


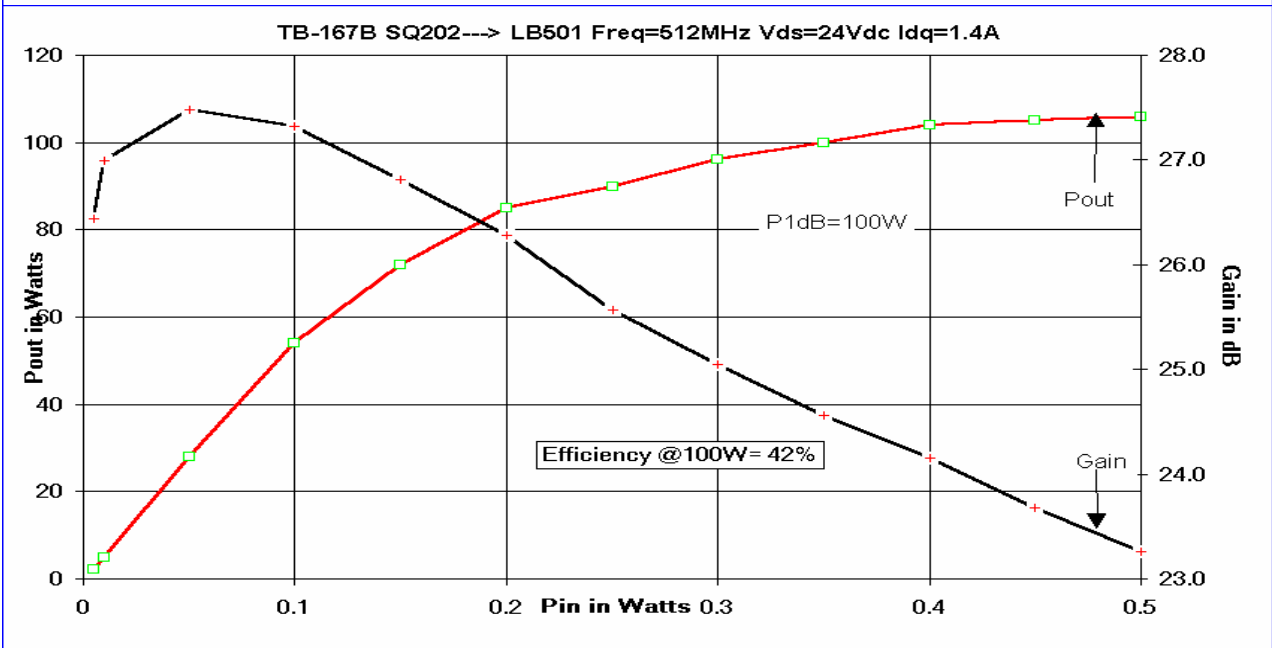
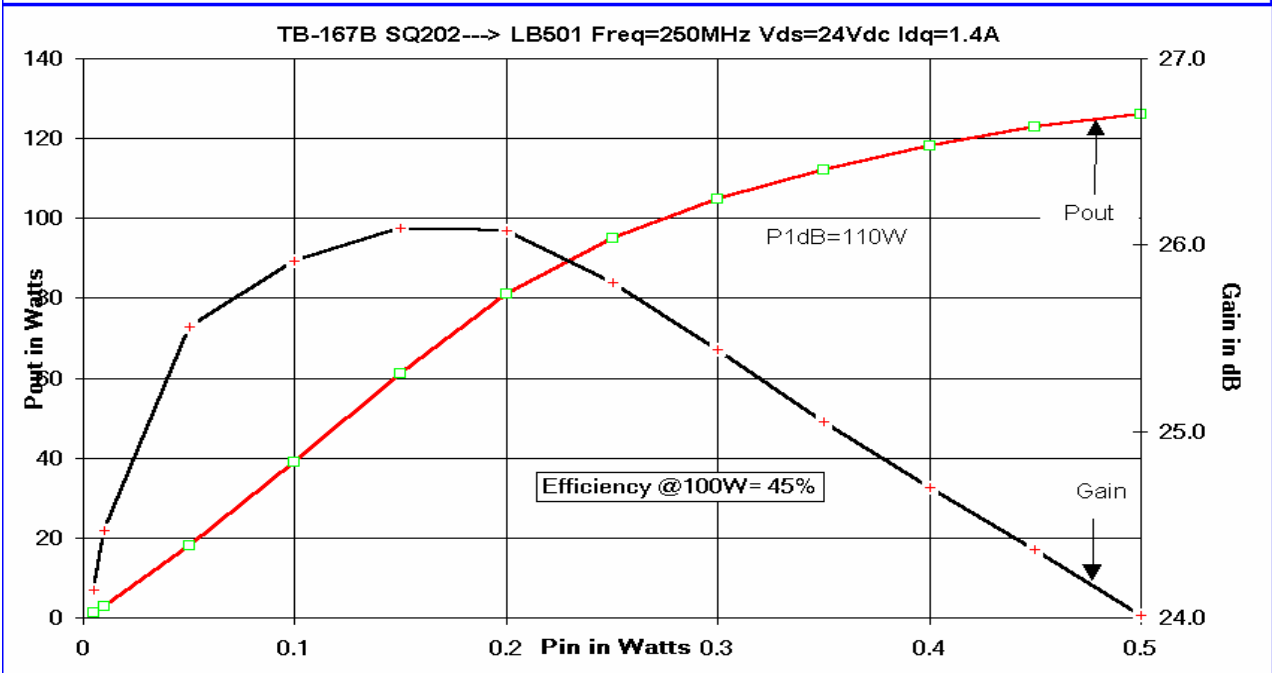
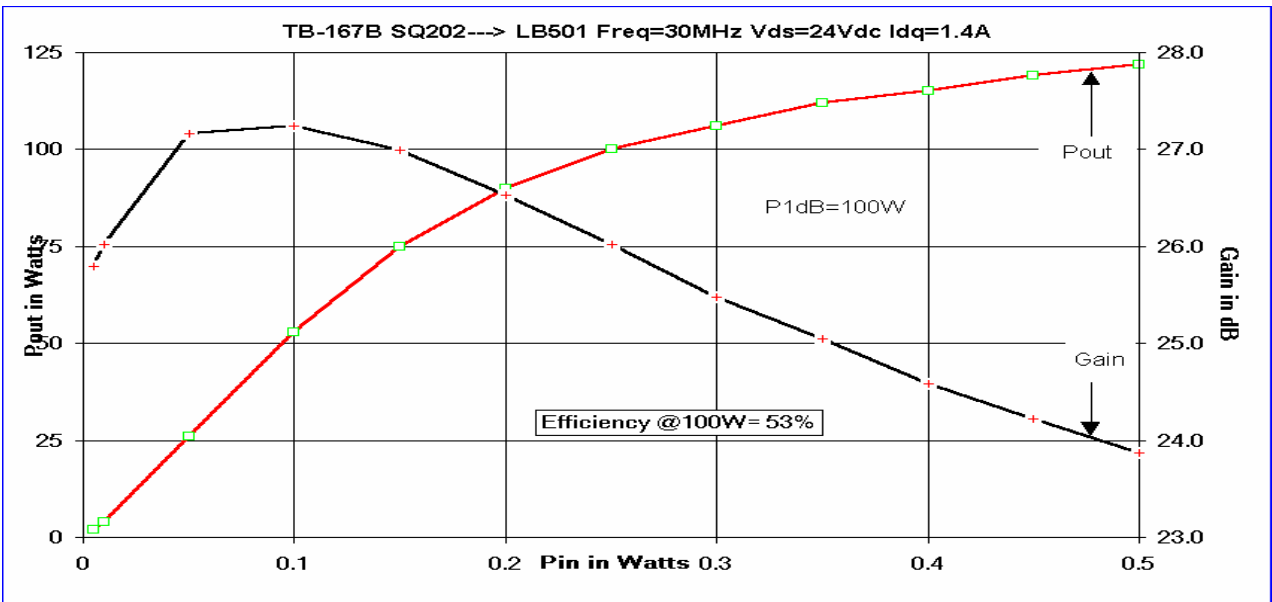
TB167B; $V_{ds}=24V_{dc}$ $I_{dq}=1.4A$, IM3 vs Freq @ 50W PEP

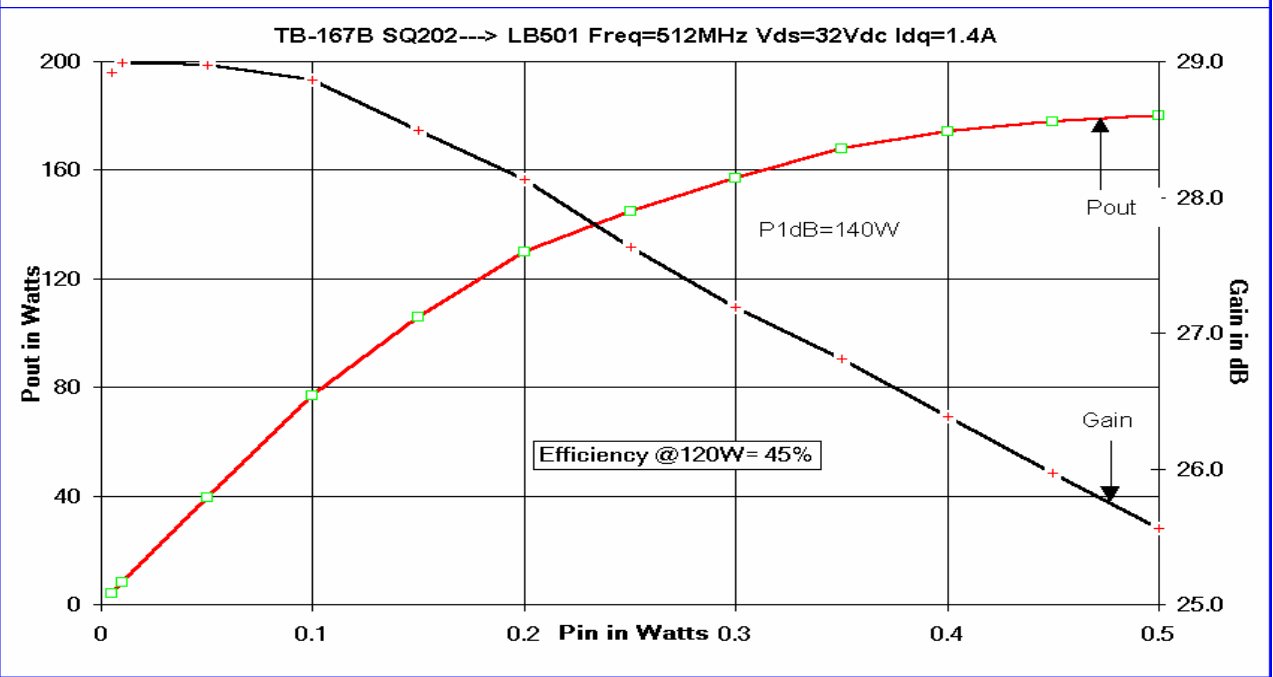
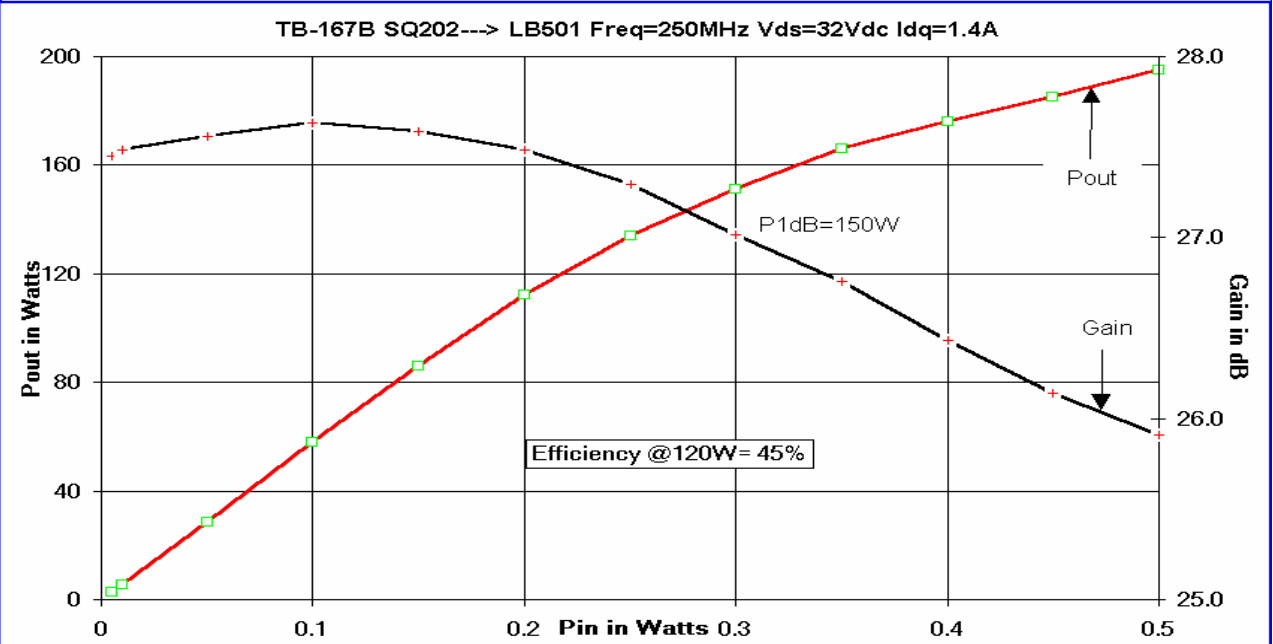
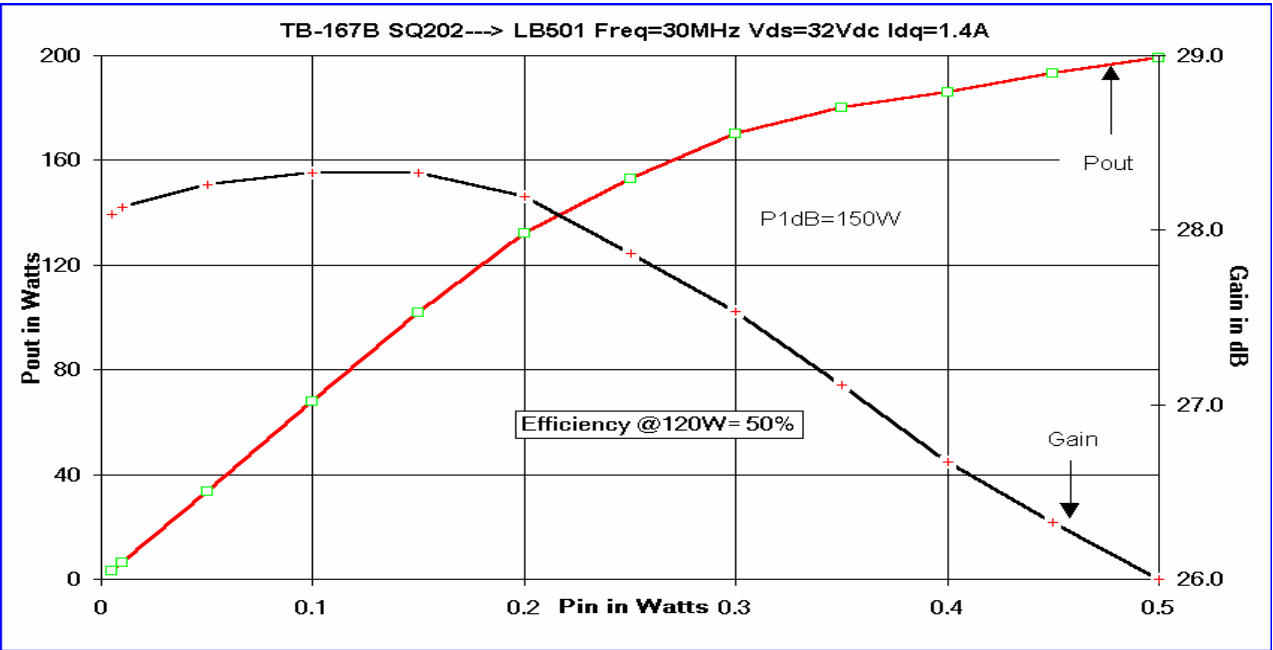


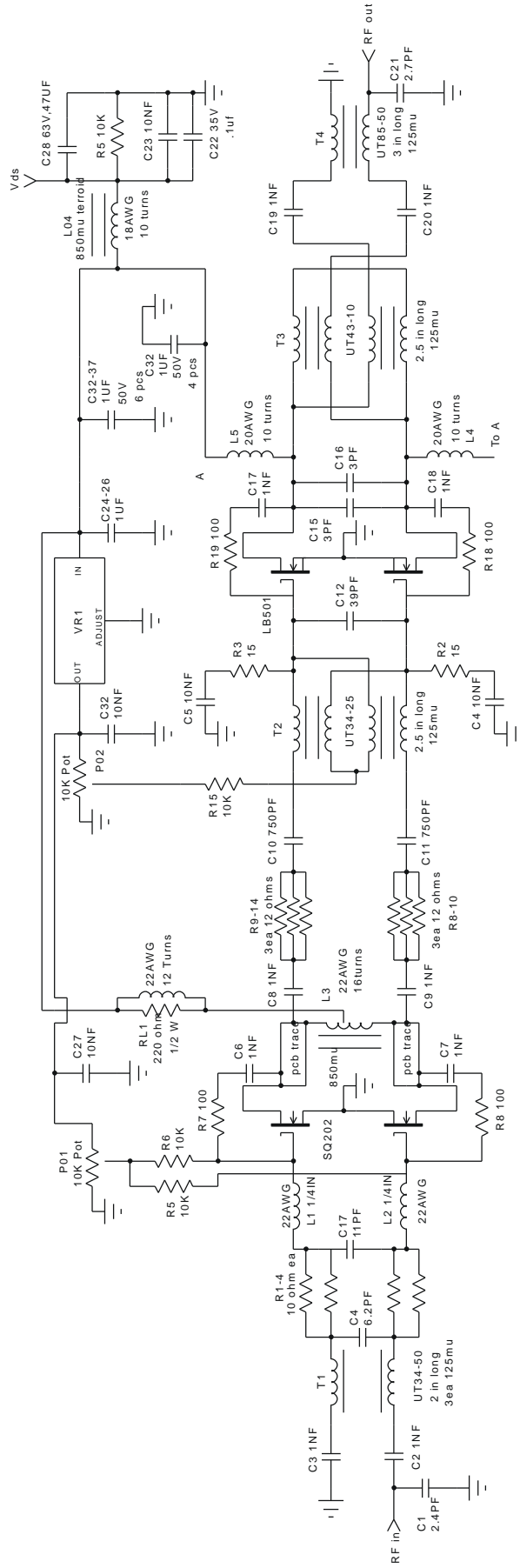
TB167B; $V_{ds}=32V_{dc}$ $I_{dq}=1.4A$, IM3 vs Freq @ 50W PEP









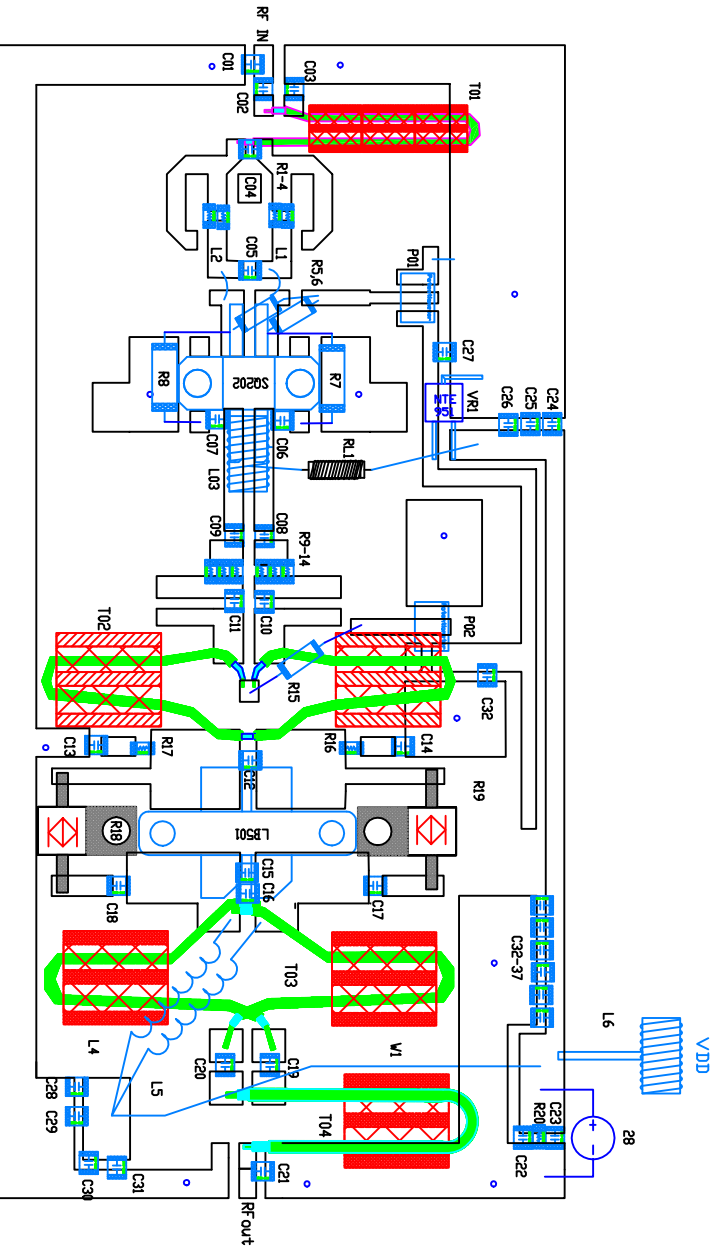


DRN BY	J.Citrolo	4/17/04
CHKD		
ELECT	J.Citrolo	4/17/04
MECH	J.Citrolo	4/17/04
PRDC		
QUAL		
PGMS		

Polyfet RF Devices

TB167B, 120W, 30-512MHz

SIZE	F.SCM. NO.	SQ202->LB501 Vds=28Vdc Idq=1.4A
REV		



SYMBOL	VALUE	DESCRIPTION
C01	2.4pF	ATC-100B Chip Cap.
C2,3,6-9,17-20	1nF	ATC-700B Chip Cap
C04	6.2pF	ATC-100B Chip Cap.
C05	11pF	ATC-100B Chip Cap
C13,14,23,27,32	10nF	ATC-200B Chip Cap
C10,11	750pF	ATC-700B Chip Cap
C12	39pF	ATC-100B Chip Cap
C15,16	3pF	ATC-100B Chip Cap
C21	2.7pF	ATC-100B Chip Cap
C24-26,28-37	1uF	50V Tantalum
C28	47uF	63V electrolytic
R1-4	10	1/4W chip resistor
R5,6,15,20	10K	1/4W axial
R7,8	100	2W axial
R9-14	12	1/4W chip resistor
R16,17	15	1/4W axial
R18,19	100	KDI 25W
P01,P02	10K	Potentiometer
L01,2	---	22AWG hair pin
L03	---	22AWG 16turns 850mu
L04,5	---	22AWG, 10 turns
L6	20AWG	10 turns, 850mu toroid
RL01	22AWG	12 turns, 1/4W 220ohm
W1	18AWG	Jumper
T01	2.5In.	UT34-50 Coax
T02	2.5In.	UT34-25 Coax
T03	2.5In.	UT43-10 Coax
T04	3In.	UT85-50 Coax
Q1--->Q2	---	SQA202--->LBS01
VR1	---	30V In, 8V out
VDD	28V	DC Power Supply
Bias	1.4A	.4A--->1A

PCB Material : Double side FR4 ER=3.5, H=0.064In, T=1
 T01 Ferrites are 3 of Amidon BN-61-2402
 T02,T03,T04 Ferrites are 5 of Amidon BN-61-202
 Holes are cut in PCB material for The ferrites of T03, T04. The ferrites are thermally epoxied to heatsink for heat dissipation.

DRN BY:	JCtrolo	4/16/04
CHKD :		
ELECT :		
MECH :		
PRDC :		
QUAL :		
PGMS :		

POLYFET RF DEVICES		
TB167B, 30-512MHZ, 120W		
SIZE	FSQM NO	REV
	SQA202--->LBS01	B
SCALE : 1 : 1	SHEET 1	DF 1

