

TB223

Frequency=20-35MHz

Pout=30W

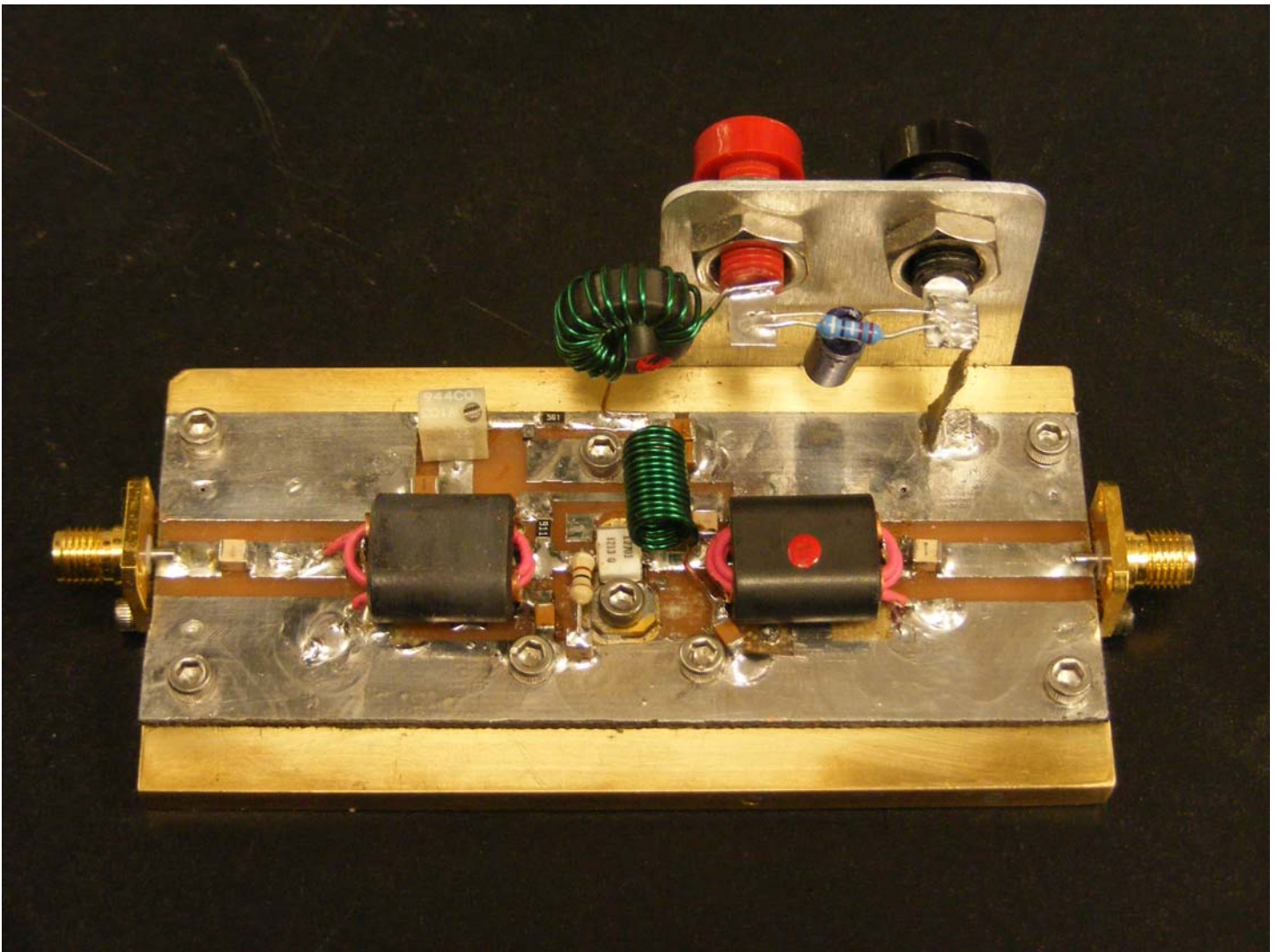
Gain=17dB

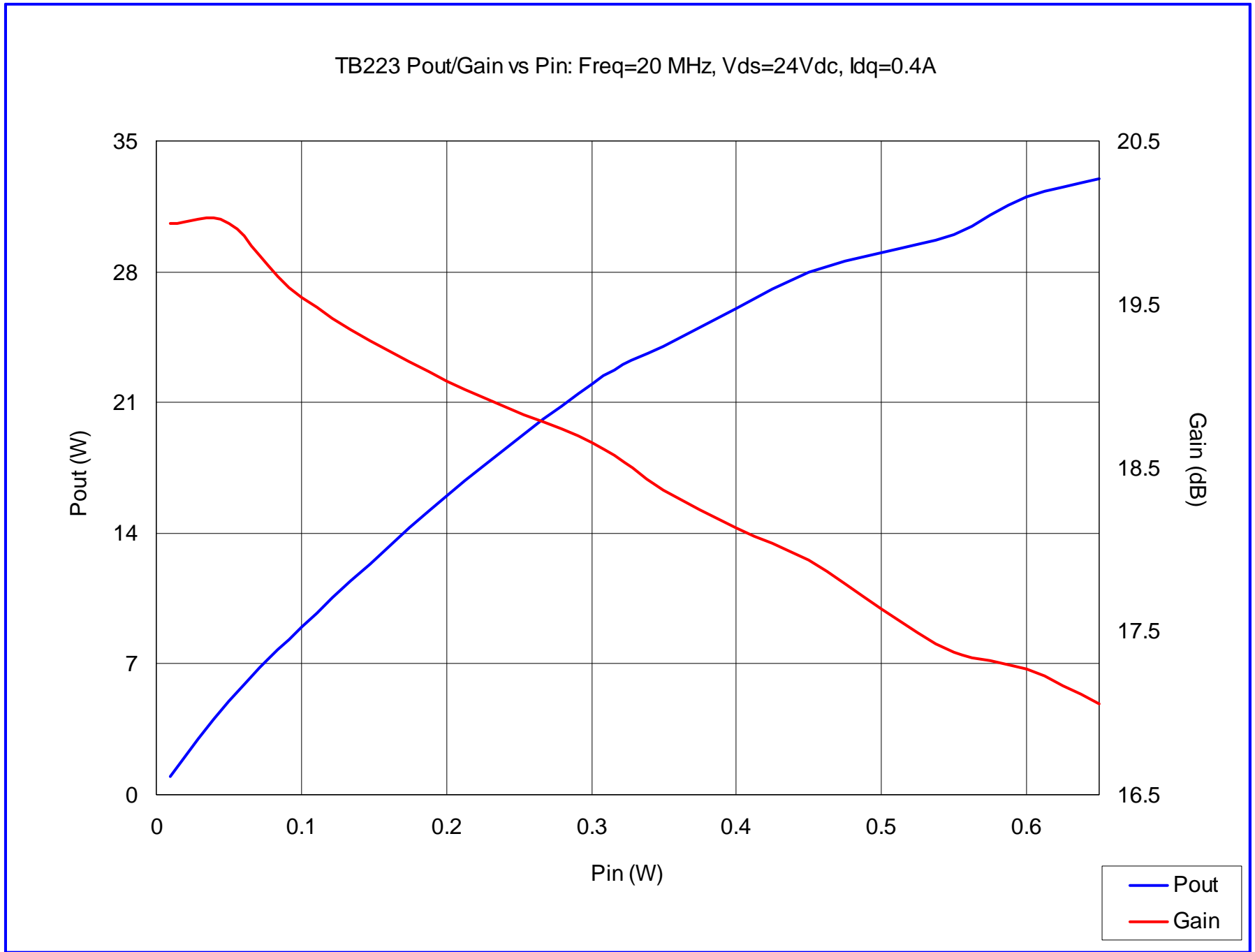
Vds=24Vdc

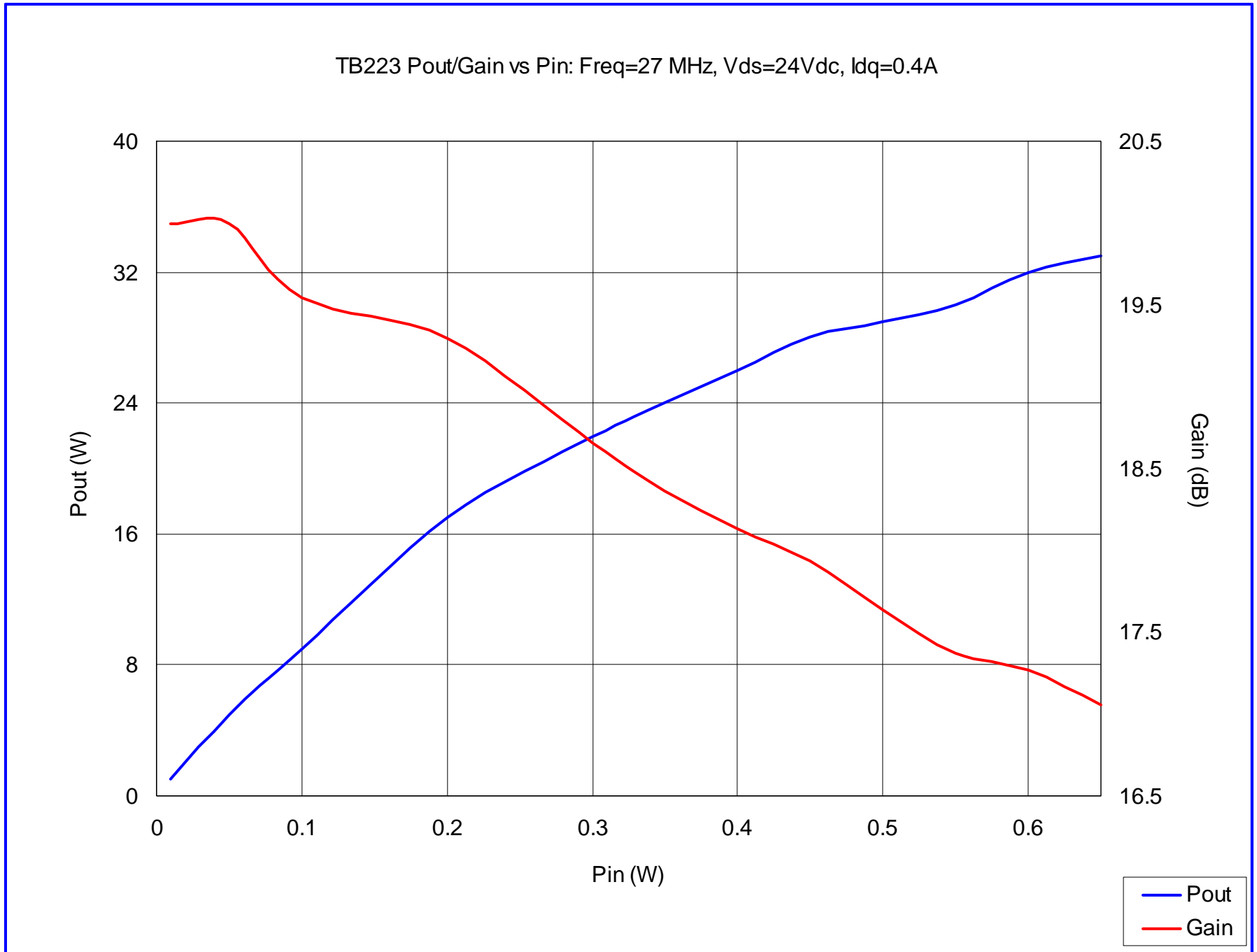
Idq=0.4A

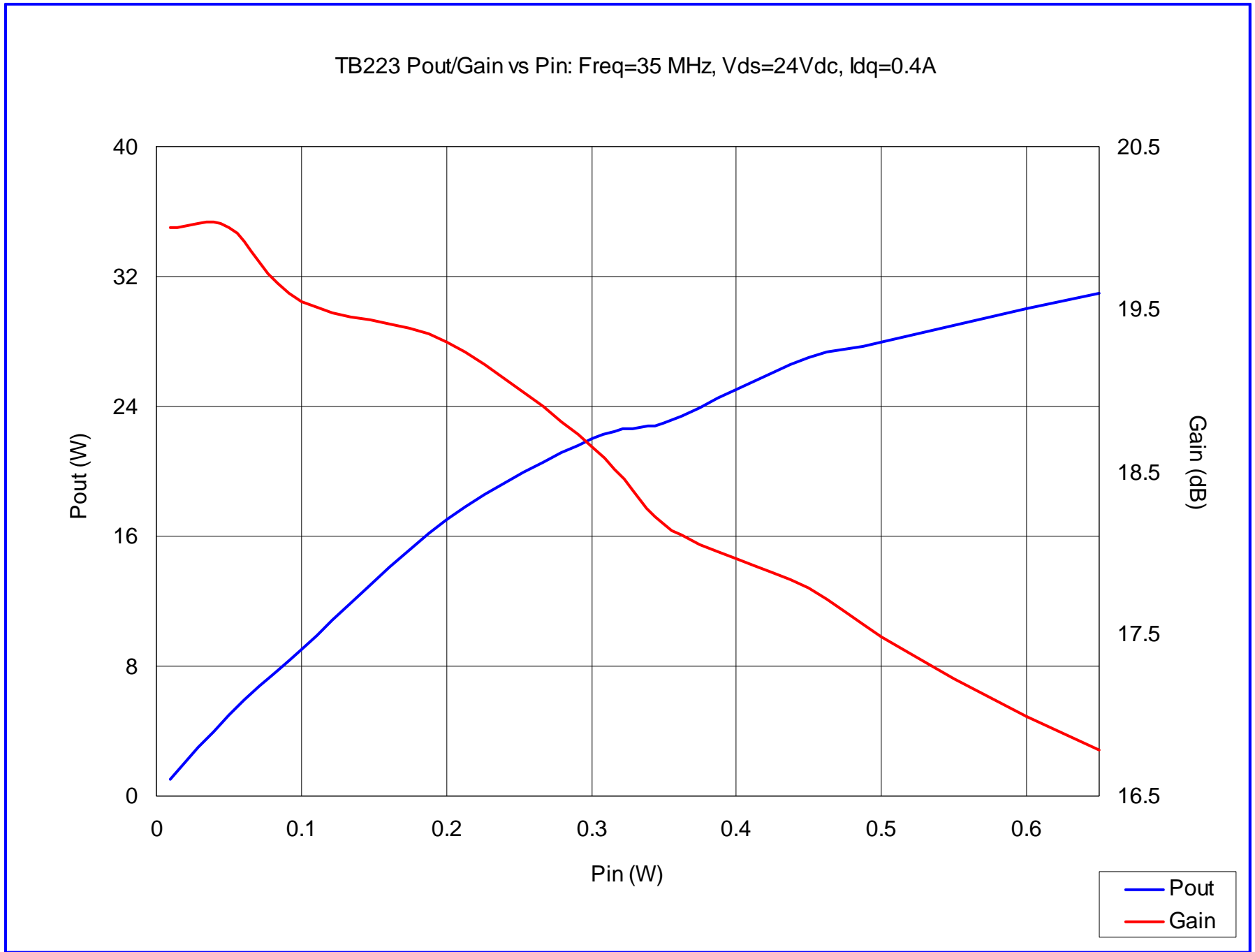
Efficiency=30 to 58%

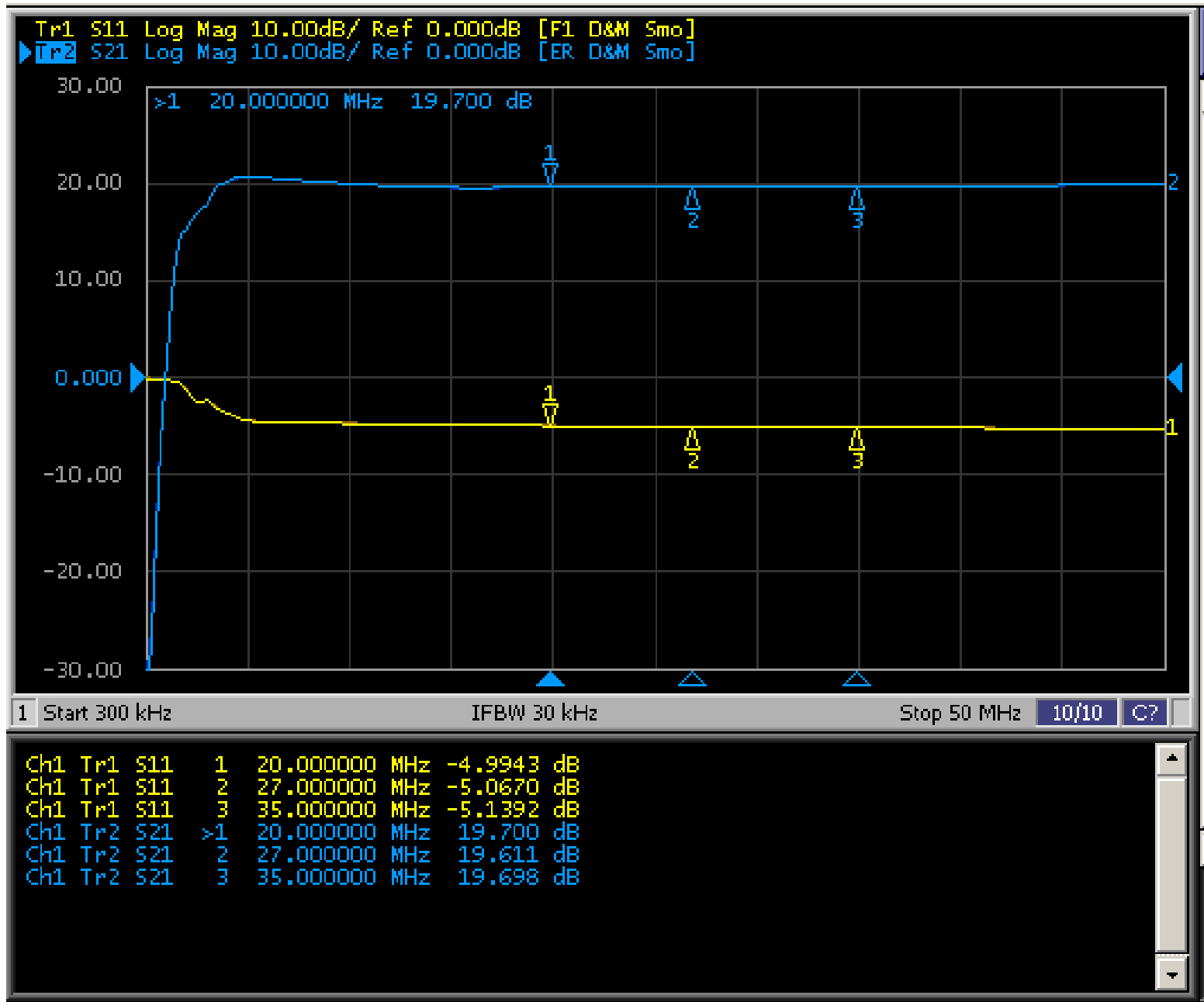
L2701



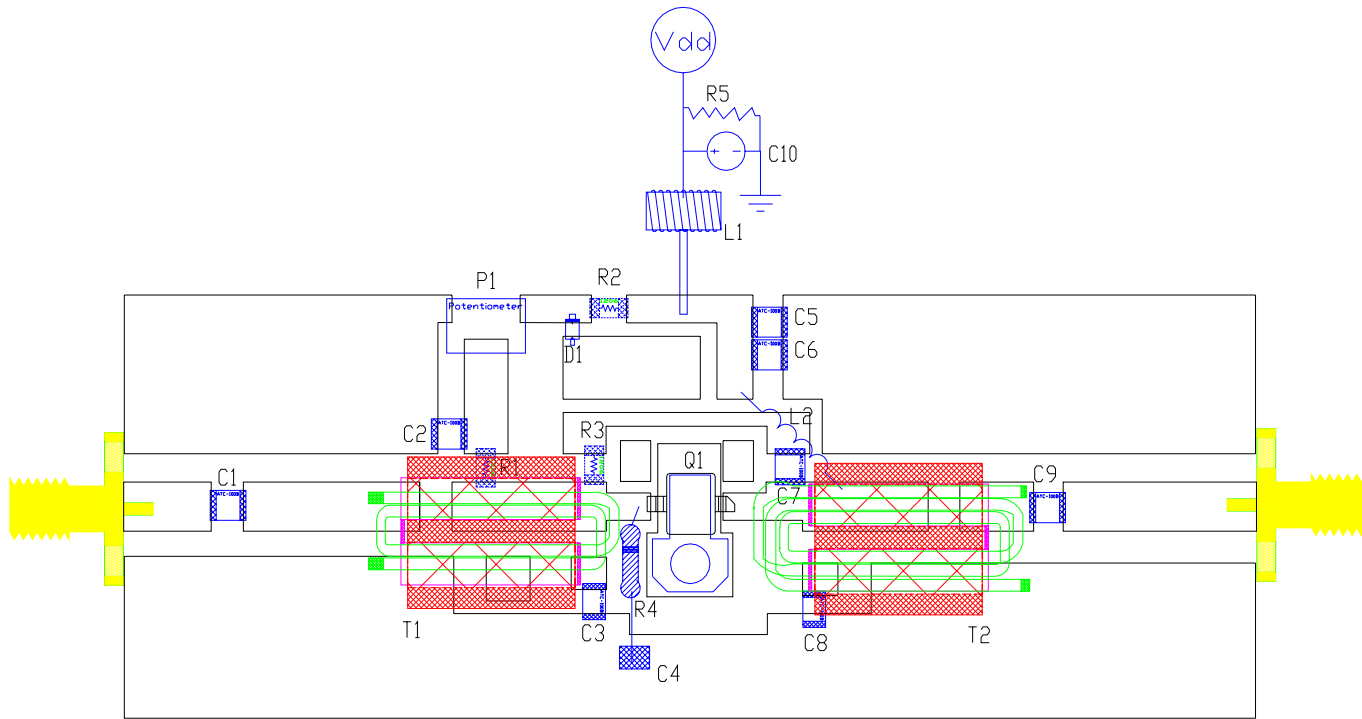








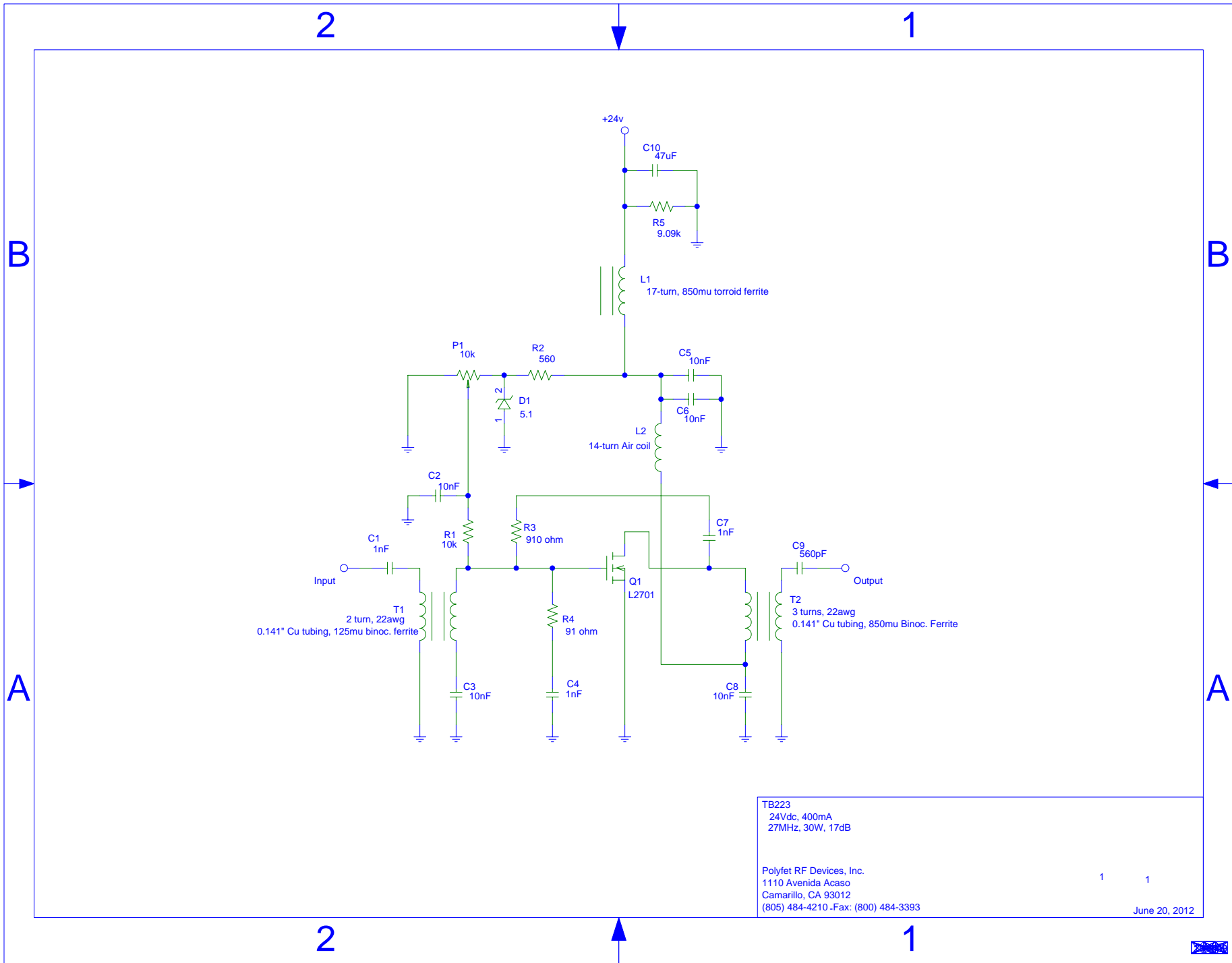
TB223, Pin = 0dBm, Vds = 24v, Idq = 0.4A



PCB Material : FR-4
 H=0.064", 1 ounce

DRN BY J. Antoaque		Polyfet RF Devices	
CHKD		TB223, 27MHz, 30W, 17dB	
ELECT	E. Cunningham J. Antoaque	6/20/12 5/25/12	
MECH	J.Antoaque	6/20/12	
PRDC		SIZE	SCALE
QUAL		1:1	L2701, 24V, 400mA
PGMS			REV 0

PART	DESCRIPTION	PART NO/S	VENDOR
C1	1nF ATC 100B Cap	100B102KW 50X	American Technical Ceramics
C2	10nF ATC 200B Cap	200B103MW 50X	American Technical Ceramics
C3	10nF ATC 200B Cap	200B103MW 50X	American Technical Ceramics
C4	1nF ATC 100B Cap	100B102KW 50X	American Technical Ceramics
C5	10nF ATC 200B Cap	200B103MW 50X	American Technical Ceramics
C6	10nF ATC 200B Cap	200B103MW 50X	American Technical Ceramics
C7	1nF ATC 100B Cap	100B102KW 50X	American Technical Ceramics
C8	10nF ATC 200B Cap	200B103MW 50X	American Technical Ceramics
C9	15pF ATC Cap	700B150JW 500X	American Technical Ceramics
C10	47uF 25V Electrolytic Cap	PCE3725CT-ND	Mouser Electronics
L1	22AWG 17X through 850mu Torroid Ferrite	MW220SPNRD FT-37-43	www.electromechaniconline.com AMIDON
L2	22AWG 14X air coil dia. 0.194"	MW220SPNRD	www.electromechaniconline.com
R1	10k ohm 0805	P103ACT-ND	Digi-Key
R2	560 ohm 0805	P561ACT-ND	Digi-Key
R3	910 ohm 0805	P911ACT-ND	Digi-Key
R4	91 ohm 1/4W Axial Metal Film	PPC91W-1CT-ND	Digi-Key
R5	9.01k ohm 1/4W Axial Metla Film	PPC9.01KW-1CT-ND	Digi-Key
T1	22AWG 2x inside 0.141" Cu tubing 125mu Binocular Ferrite	MW220SPNRD UT-141A-50 BN-61-202	www.electromechaniconline.com AMAWAVE AMIDON
T2	22AWG 2x inside 0.141" Cu tubing 850mu Binocular Ferrite	MW220SPNRD UT-141A-50 BN-43-202	www.electromechaniconline.com AMAWAVE AMIDON
D1	5.1V ZENER	MMSZ5231B-V-GS08	Digi-Key
P1	10k ohm 6mm Mult-Turn POT	ST5W103CT-ND	Digi-Key
Q1	MOSFET	L2701	Polyfet RF Devices



TB223
 24Vdc, 400mA
 27MHz, 30W, 17dB

Polyfet RF Devices, Inc.
 1110 Avenida Acaso
 Camarillo, CA 93012
 (805) 484-4210 - Fax: (800) 484-3393

1 1

June 20, 2012

