

Figure 1- Gain vs. Power Output

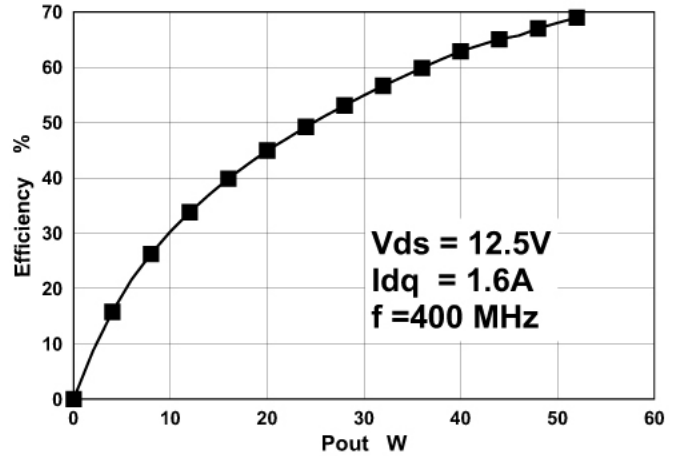


Figure 2 - Efficiency vs. Power Output

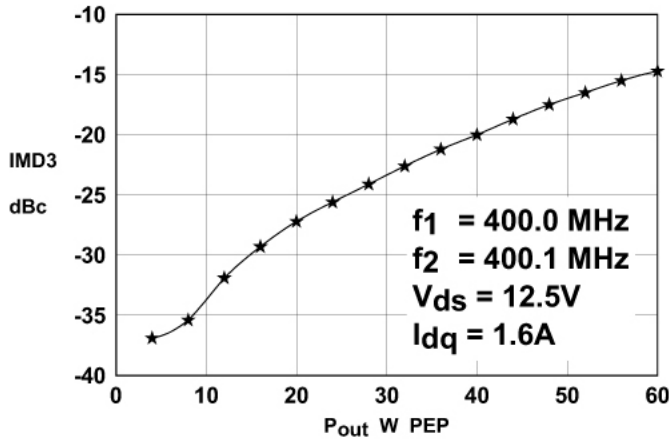


Figure 3 - IMD vs. Power Output

OPTIMUM SOURCE AND LOAD IMPEDANCE

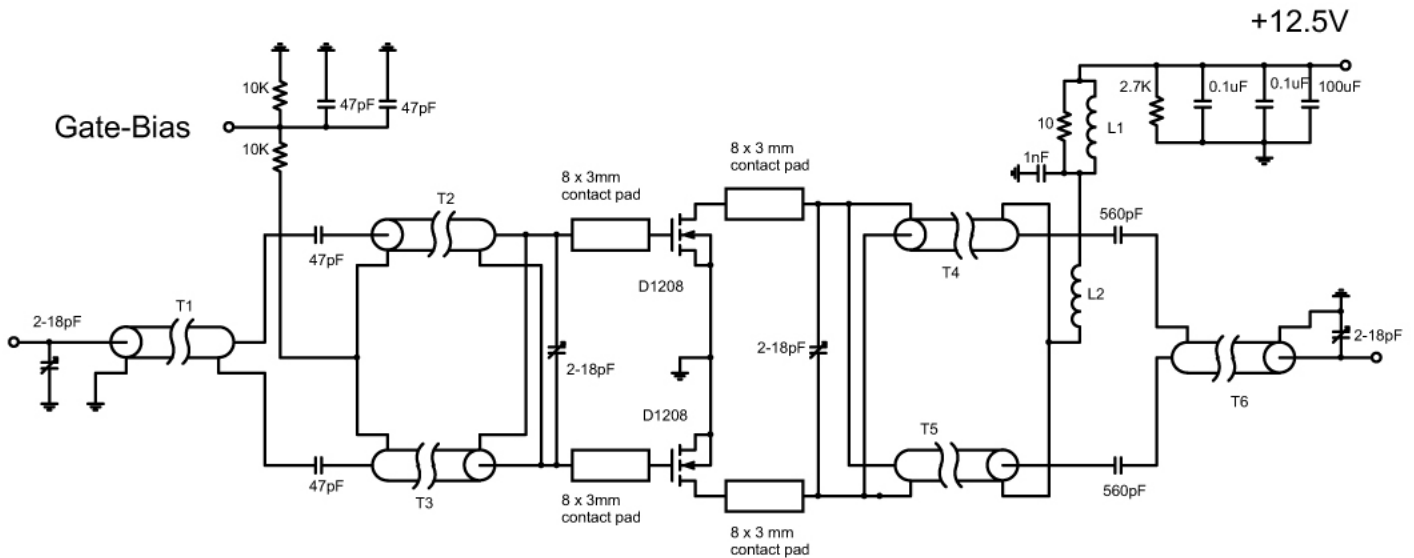
Frequency MHz	Z_S Ω	Z_L Ω
400	$1.5 + j1.2$	$1.9 - j1.1$

Typical S Parameters

! $V_{DS} = 12.5V$, $I_{DQ} = 0.4A$
MHz S MA R 50

Freq MHz	S11		S21		S12		S22	
	mag	ang	mag	ang	mag	ang	mag	ang
70	0.71	-151.2	9.5	73.1	0.019	-9.1	0.77	-163.9
100	0.75	-156.2	6.1	62.2	0.016	-13.2	0.79	-166.0
150	0.81	-162.7	3.7	50.4	0.012	-12.8	0.83	-169.7
200	0.85	-167.4	2.4	44.0	0.009	0.4	0.86	-172.8
250	0.88	-171.0	1.7	36.6	0.008	20.8	0.88	-175.3
300	0.90	-173.9	1.3	34.5	0.009	49.0	0.89	-176.6
350	0.91	-175.1	1.0	26.0	0.010	60.6	0.90	-178.7
400	0.92	-177.9	0.8	23.4	0.014	70.2	0.91	-180.0
450	0.93	-179.7	0.7	17.6	0.017	75.0	0.92	-178.6
500	0.93	178.1	0.6	13.3	0.021	77.9	0.93	176.8
550	0.94	175.9	0.5	8.2	0.023	78.5	0.93	175.4
600	0.95	174.2	0.4	2.5	0.028	77.1	0.94	174.4
650	0.95	172.2	0.3	8.9	0.029	80.6	0.95	172.9
700	0.96	170.9	0.2	19.2	0.034	76.8	0.95	171.8

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- T1 50 Ohm semi-rigid coax 0.034" dia, 7cm long
- T2,3 25 Ohm semi-rigid coax 0.070" dia, 10cm long on Siemens B62152A1X1 ferrite core
- T4,5 25 Ohm semi-rigid coax 0.070" dia, 10cm long
- T6 50 Ohm semi-rigid coax 0.034" dia, 7cm long
- L1 2.5 turns 1mm dia enamelled copper wire on Siemens B62152A1X1 ferrite core
- L2 6 turns 2 mm dia enamelled copper wire, 3.5mm internal diameter

D1208 400MHz Test Fixture

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