

Power splitter out **Power splitter out** **Xtal output (mv)**
 9.73 dbm 9.4 mW -93.4

Created 3/30/06

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Linac System		Phase = 0		(5 micro sec)		
I/Q set point (db)	Power out of Pre-amp (dbm)	Power out of Pre-amp (mW)	Pre-amp Xtal (mV)	1KW power out (dbm)	1KW power out (Watts)	1KW power out Xtal (mV p-p)
0	23.01	199.99	-133	59.17	826	640
-1	22.12	162.93	-123	59.06	805	638
-2	21.26	133.66	-113	58.92	780	636
-3	20.36	108.64	-104	58.76	752	632
-4	19.31	85.31	-93	58.55	716	624
-5	18.33	68.08	-83	58.33	681	622
-6	17.33	54.08	-72.7	58.08	643	616
-7	16.35	43.15	-61.7	57.81	604	608
-8	15.33	34.12	-49.5	57.5	562	602
-9	14.32	27.04	-37.6	57.17	521	592
-10	13.31	21.43	-27.1	56.79	478	584
-11	12.3	16.98	-18.6	56.38	435	572
-12	11.28	13.43	-11.7	55.91	390	560
-13	10.35	10.84	-7.1	55.43	349	548
-14	9.4	8.7	-3.9	54.84	305	524
-15	8.3	6.8	-2.2	54.11	258	504
-16	7.3	5.4	-1.4	53.25	211	476
-17	6.3	4.3	-1.1	52.11	163	444
-18	5.4	3.5	-1	50.94	124	412
-19	4.4	2.8	-1	49.46	88.3	368
-20	3.4	2.2	-1	47.64	58.1	320

Gun System		See note 1		(5 micro sec)		See note 2
Phase = 0	Power out of	Power out of	Pre-amp Xtal	1KW power out	1KW power out	1KW power out
I/Q set point (db)	Pre-amp (dbm)	Pre-amp (mW)	(mV)	(dbm)	(Watts)	Xtal (mV p-p)
0	-2.3	0.59	-145	52.59	181.6	700

-1	-3.3	0.47	-134	51.68	147.2	688
-2	-4.4	0.36	-122	50.72	118	672
-3	-5.3	0.3	-111	49.87	97	656
-4	-6.4	0.23	-99.7	48.82	76.2	636
-5	-7.4	0.18	-89.6	47.88	61.4	620
-6	-8.5	0.14	-78	46.79	47.8	596
-7	-9.5	0.11	-66.6	45.8	38	576
-8	-10.6	0.087	-53.2	44.7	29	556
-9	-11.7	0.068	-40.4	43.64	23.1	536
-10	-12.9	0.051	-28.1	42.54	17.9	516
-11	-14	0.04	-18.6	41.47	14	500
-12	-15	0.032	-11.1	40.48	11.2	484
-13	-16.2	0.024	-5.7	39.45	8.8	464
-14	-17.2	0.019	-2.5	38.46	7	448
-15	-18.5	0.014	-0.8	37.4	5.5	432
-16	-20	0.01	0	36.38	4.3	416
-17	-21	0.0079	0.3	35.1	3.2	392
-18	-22	0.0063	0.4	34.06	2.5	376
-19	-24	0.004	0.5	33	2	356
-20	-26	0.0025	0.5	31.98	1.6	332

Note 1

24db attenuation
at Pre-amp input

Note 2

There is a large
overshoot in the
beginning of the
pulse.
Measurement was
taken in middle of
pulse.