

BDP3-AMP – Dataradio 70W 700MHz PA Engineering Report – Annex A –
Part A1 Gain and Transmitted power

ANNEX A1

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NAME OF TEST: Transmitter Rated Power Output

RULE PART NUMBER: 2.1046 (a), 90.541

UNIT UNDER TEST Prototype unit

TEST RESULTS: 35 to 70W, Meets minimum standard, see data below

TEST CONDITIONS: Standard Test Conditions, 25 C. 60 min warm-up time for UUT

TEST EQUIPMENT: Digital Voltmeter, Fluke 77 series II multimeter x2
DC Power Supply , Tait Model T809-10 13.8Vdc/30Adc
Attenuators Bird models 150-A-FFN-03 and 150-A-MFN-30
Fluke current probe 1mV/A
Wattmeter Coaxial Dynamics model 81050

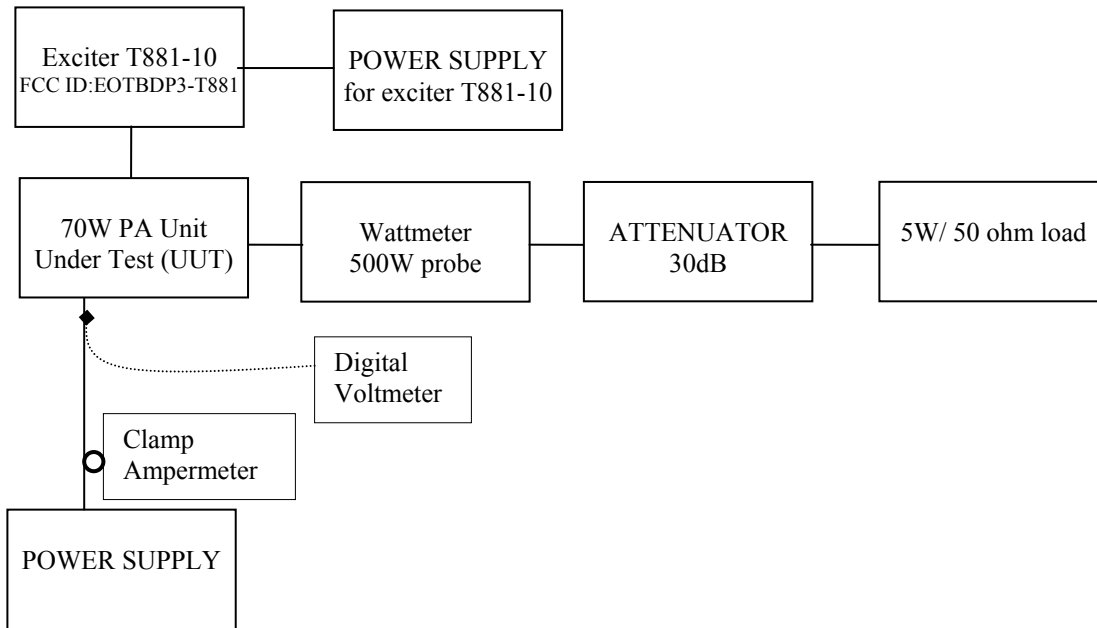
PERFORMED BY:

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DATE: 02/14/05

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TEST SET-UP:



TEST RESULTS (on the test frequency 770.025MHz (ch 120)):

input conditions/output	DC Voltage at	DC Current into	DC Power into	Gain	RF Power
(RF input)	<u>UUT (VDC)</u>	<u>UUT (ADC)</u>	<u>UUT (W)</u>	(dB)	<u>Output (W)</u>
RF in 0	13.82	0.1	1.38	NA	0
RF in 4.0W/RF out 70W	13.35	18.1	241.63	12.43	70
RF in 4.0W/RF out 35W	13.59	10.5	142.69	9.42	35

UUT is a single carrier power amplifier.