

8. PART LIST

Reference	SEC Code	Description
D302	0404-001093	HSMS-282C, 1V, 30mA, SOT-323, TP
ZD206	0404-001110	RB751S-40, 40V, 30mA, SOD-523, TP
ZD207	0404-001110	RB751S-40, 40V, 30mA, SOD-523, TP
ZD101	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD102	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD103	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD104	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD202	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD203	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD204	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD205	0406-001083	-, 6.1/-/7.2V, 150W, SOT-323-5L
ZD201	0406-001113	ESDA5V3L, 5.3/-/5.9V, 300W, SOT-23
D103	0407-000115	DAN202U, 80V, 100mA, CA2-3, SC-70,
Q203	0501-000225	2SC4617, NPN, 200mW, EM3, TP, 120-5
Q204	0501-000225	2SC4617, NPN, 200mW, EM3, TP, 120-5
Q103	0501-002318	UMW8N, NPN, 150mW, UMT6, TP, 27-270
Q201	0504-000168	RN1104, NPN, 100MW, 47K/47K, SSM, TP
Q205	0504-000168	RN1104, NPN, 100MW, 47K/47K, SSM, TP
Q101	0504-000172	RN2104, PNP, 100MW, 47K/47K, SSM, TP
Q102	0504-000172	RN2104, PNP, 100MW, 47K/47K, SSM, TP
Q202	0504-000172	RN2104, PNP, 100MW, 47K/47K, SSM, TP
U311	0505-001165	SI3443DV, P, -20V, +-3.5mA, 65mohm
U209	0505-001462	1905, P, -8V, 0.6A, 0.51ohm, 0.3W, SOT-363
U211	0505-001462	1905, P, -8V, 0.6A, 0.51ohm, 0.3W, SOT-363
U213	0505-001462	1905, P, -8V, 0.6A, 0.51ohm, 0.3W, SOT-363
Q206	0505-001464	SI1305DL, P, 8V, 0.86A, 0.28ohm, 0.26W, SOT-323
Q301	0505-001469	SI1902DL, N, 20V, +-0.66A, 0.63ohm, 0.27W, SOT-363
U104	0506-001054	IMD10A, NPN/PNP, 2, 300mW, SMT6, TP, 68-/100-600
U208	0506-001054	IMD10A, NPN/PNP, 2, 300mW, SMT6, TP, 68-/100-600
U310	0801-000022	7S00, NAND GATE, SOP, 5P, 49MIL, SINGLE, TP, PLASTIC, -, -, -, -40to+85C, 200MW, -, 25MA, -, -
U206	1107-001227	28F3204, 2Mx16Bit, CSP, 72P, 315MIL, 110nS, 3V, 10%, PLASTIC, -40to+85C, 20uA, CMOS, TR
U306	1201-001006	7101, SOT-23, 5P, -, SINGLE, -, PLAS
U301	1201-001609	2363, SOP, 8P, 62MIL, DUAL, 18dB, PLASTIC, 5V, -, -40to+85C, -, -, -, -
U305	1201-001634	2162, LCC, 16P, 157MIL, -, 29dB, PLASTIC, 5.2V, -, -30to+110C, -, -, -, -
U307	1201-001636	2376, SOT-23, 6P, 63MIL, SINGLE, 27dB, PLASTIC, 3.3V, -, -20to+85C, -, -, -, -
U105	1201-001639	4882, SOP, 8P, 118MIL, -, -, PLASTIC, 5.5V, -, -40to+85C, -, -, -, -, TP
U210	1203-001302	5205, SOT-23, 5P, 119MIL, PLASTIC,

U214	1203-001835	3470,SOT23,5P,-,PLASTIC,0.99/1.01V,300mW, -40to+85C,6uA,1.14/1.24V,TP
U103	1203-001979	5320,SSOP,8P,110MIL,PLASTIC,6.12V,300mW, -40to+85C,150mA,-,TP
U207	1203-001979	5320,SSOP,8P,110MIL,PLASTIC,6.12V,300mW, -40to+85C,150mA,-,TP
U212	1203-001979	5320,SSOP,8P,110MIL,PLASTIC,6.12V,300mW, -40to+85C,150mA,-,TP
U215	1203-002129	71622,SOT- 23,5P,62MIL,PLASTIC,2.14/2.26V,500MW, -30TO+80C,150MA,-,TP
U101	1205-001826	D5204-22,TQFP,80P,470MIL,PLASTIC,3.6V,-, -40TO+85C,TR,-
U203	1205-001831	D5205,BGA,192P,550MIL,PLASTIC,3.6V,-, -40to+85C,TR,-
U304	1205-001986	UPC8015GK-9EU,TQFP,80P,472MIL, PLASTIC,3V,-,3TO+65C,TR,-
TH101	1404-001165	10KOHM,3%,4100K,30MW/C,TP
D101	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
D102	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
D104	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
D105	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
D202	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
D203	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
D204	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
D205	1405-001082	5.6V,20A,1x0.5x0.6mm,TP
R202	2007-000029	0OHM,5%,1/10W,DA,TP,2012
R210	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R211	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R265	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R266	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R267	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R268	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R269	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R270	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R271	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R330	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R334	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R349	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R354	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R355	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R409	2007-000138	100ohm,5%,1/16W,DA,TP,1005
R127	2007-000140	1Kohm,5%,1/16W,DA,TP,1005
R132	2007-000140	1Kohm,5%,1/16W,DA,TP,1005
R252	2007-000140	1Kohm,5%,1/16W,DA,TP,1005
R260	2007-000140	1Kohm,5%,1/16W,DA,TP,1005
R313	2007-000140	1Kohm,5%,1/16W,DA,TP,1005

R331	2007-000140	1Kohm,5%,1/16W,DA,TP,1005
R339	2007-000140	1Kohm,5%,1/16W,DA,TP,1005
R392	2007-000140	1Kohm,5%,1/16W,DA,TP,1005
R363	2007-000141	2.2Kohm,5%,1/16W,DA,TP,1005
R369	2007-000141	2.2Kohm,5%,1/16W,DA,TP,1005
R104	2007-000142	2.7Kohm,5%,1/16W,DA,TP,1005
R391	2007-000142	2.7Kohm,5%,1/16W,DA,TP,1005
R214	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R215	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R216	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R312	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R320	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R324	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R333	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R342	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R343	2007-000143	4.7Kohm,5%,1/16W,DA,TP,1005
R345	2007-000144	5.1Kohm,5%,1/16W,DA,TP,1005
R378	2007-000145	6.2Kohm,5%,1/16W,DA,TP,1005
R247	2007-000146	6.8Kohm,5%,1/16W,DA,TP,1005
R101	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R102	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R108	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R213	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R274	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R281	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R321	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R337	2007-000148	10Kohm,5%,1/16W,DA,TP,1005
R114	2007-000151	15Kohm,5%,1/16W,DA,TP,1005
R129	2007-000151	15Kohm,5%,1/16W,DA,TP,1005
R130	2007-000151	15Kohm,5%,1/16W,DA,TP,1005
R385	2007-000151	15Kohm,5%,1/16W,DA,TP,1005
R141	2007-000152	20Kohm,5%,1/16W,DA,TP,1005
R255	2007-000152	20Kohm,5%,1/16W,DA,TP,1005
R253	2007-000153	22Kohm,5%,1/16W,DA,TP,1005
R261	2007-000153	22Kohm,5%,1/16W,DA,TP,1005
R362	2007-000155	27Kohm,5%,1/16W,DA,TP,1005
R140	2007-000157	47Kohm,5%,1/16W,DA,TP,1005
R142	2007-000157	47Kohm,5%,1/16W,DA,TP,1005
R208	2007-000157	47Kohm,5%,1/16W,DA,TP,1005
R239	2007-000157	47Kohm,5%,1/16W,DA,TP,1005
R359	2007-000159	56Kohm,5%,1/16W,DA,TP,1005
R126	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R138	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R143	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R144	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R145	2007-000162	100Kohm,5%,1/16W,DA,TP,1005

R209	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R230	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R232	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R233	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R234	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R242	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R243	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R244	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R245	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R246	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R249	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R250	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R251	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R254	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R273	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R275	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R276	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R361	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R382	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R387	2007-000162	100Kohm,5%,1/16W,DA,TP,1005
R236	2007-000167	390Kohm,5%,1/16W,DA,TP,1005
R375	2007-000168	470Kohm,5%,1/16W,DA,TP,1005
R203	2007-000170	1Mohm,5%,1/16W,DA,TP,1005
R139	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R206	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R235	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R258	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R306	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R307	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R311	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R332	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R344	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R350	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R356	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R373	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R379	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R380	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R383	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R389	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R390	2007-000172	10ohm,5%,1/16W,DA,TP,1005
R217	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R218	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R219	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R220	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R221	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R222	2007-000173	22ohm,5%,1/16W,DA,TP,1005

R223	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R224	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R225	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R226	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R227	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R228	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R229	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R279	2007-000173	22ohm,5%,1/16W,DA,TP,1005
R314	2007-000174	47ohm,5%,1/16W,DA,TP,1005
R323	2007-000242	1.5Kohm,5%,1/16W,DA,TP,1005
R136	2007-000566	220Kohm,5%,1/16W,DA,TP,1005
R137	2007-000566	220Kohm,5%,1/16W,DA,TP,1005
R336	2007-000566	220Kohm,5%,1/16W,DA,TP,1005
R207	2007-000636	270Kohm,5%,1/16W,DA,TP,1005
R115	2007-000758	330Kohm,5%,1/16W,DA,TP,1005
R116	2007-000758	330Kohm,5%,1/16W,DA,TP,1005
R117	2007-000758	330Kohm,5%,1/16W,DA,TP,1005
R240	2007-000758	330Kohm,5%,1/16W,DA,TP,1005
R368	2007-000775	33Kohm,5%,1/16W,DA,TP,1005
R316	2007-000932	470ohm,5%,1/16W,DA,TP,1005
R322	2007-000932	470ohm,5%,1/16W,DA,TP,1005
R118	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R119	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R120	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R121	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R122	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R123	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R124	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R125	2007-001295	39ohm,5%,1/16W,DA,TP,1005
R135	2007-001295	39ohm,5%,1/16W,DA,TP,1005
L307	2007-001298	51ohm,5%,1/16W,DA,TP,1005
L341	2007-001298	51ohm,5%,1/16W,DA,TP,1005
R133	2007-001298	51ohm,5%,1/16W,DA,TP,1005
R134	2007-001298	51ohm,5%,1/16W,DA,TP,1005
R371	2007-001298	51ohm,5%,1/16W,DA,TP,1005
R381	2007-001298	51ohm,5%,1/16W,DA,TP,1005
R352	2007-001301	68ohm,5%,1/16W,DA,TP,1005
R309	2007-001311	270ohm,5%,1/16W,DA,TP,1005
R346	2007-001316	820ohm,5%,1/16W,DA,TP,1005
R259	2007-001319	1.2Kohm,5%,1/16W,DA,TP,1005
R301	2007-001319	1.2Kohm,5%,1/16W,DA,TP,1005
R128	2007-001320	1.8Kohm,5%,1/16W,DA,TP,1005
R131	2007-001320	1.8Kohm,5%,1/16W,DA,TP,1005
R315	2007-001323	3Kohm,5%,1/16W,DA,TP,1005
R393	2007-001323	3Kohm,5%,1/16W,DA,TP,1005
R262	2007-001325	3.3Kohm,5%,1/16W,DA,TP,1005

R386	2007-001333	18Kohm,5%,1/16W,DA,TP,1005
R105	2007-001335	36Kohm,5%,1/16W,DA,TP,1005
R327	2007-001339	180Kohm,5%,1/16W,DA,TP,1005
R106	2007-001341	680Kohm,5%,1/16W,DA,TP,1005
R304	2007-003013	2.4KOHM,5%,1/16W,DA,TP,1005
R303	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R310	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R318	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R319	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R325	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R326	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R328	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R329	2007-003112	27OHM,5%,1/16W,DA,TP,1005
R406	2007-007090	11KOHM,5%,1/16W,DA,TP,1005
R103	2007-007135	18Kohm,1%,1/16W,DA,TP,1005
R341	2007-007200	2.4OHM,5%,1/16W,DA,TP,1005
R238	2007-007573	330Kohm,1%,1/16W,DA,TP,1005
R109	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R110	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R111	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R113	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R241	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R256	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R264	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R278	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R280	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R282	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R302	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R308	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R338	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R340	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R347	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R357	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R374	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R405	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R407	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R410	2007-007771	0OHM,5%,1/16W,DA,TP,1005
R107	2007-007943	560Kohm,1%,1/16W,DA,TP,1005
R112	2007-008037	57.6Kohm,1%,1/16W,DA,TP,1005
C377	2203-000138	1.5nF,10%,50V,X7R,TP,1005,-
U312	2203-000138	1.5nF,10%,50V,X7R,TP,1005,-
C116	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C172	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C173	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C178	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C179	2203-000233	0.1nF,5%,50V,NP0,TP,1005

C201	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C202	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C303	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C318	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C321	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C327	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C330	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C337	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C340	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C344	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C352	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C355	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C365	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C368	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C393	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C394	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C395	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C399	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C404	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C410	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C415	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C421	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C455	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C463	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C475	2203-000233	0.1nF,5%,50V,NP0,TP,1005
C103	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C242	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C338	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C369	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C378	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C381	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C383	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C384	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C417	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C420	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C424	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C435	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C445	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C470	2203-000254	10nF,10%,16V,X7R,TP,1005,-
C128	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C144	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C152	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C154	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C175	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C177	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C308	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005

C309	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C314	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C328	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C362	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C374	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C397	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C402	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C477	2203-000278	0.01nF,0.5pF,50V,NP0,TP,1005
C153	2203-000330	0.012nF,5%,50V,NP0,TP,1005
C155	2203-000330	0.012nF,5%,50V,NP0,TP,1005
C325	2203-000386	0.015nF,5%,50V,NP0,TP,1005
C350	2203-000386	0.015nF,5%,50V,NP0,TP,1005
C354	2203-000386	0.015nF,5%,50V,NP0,TP,1005
L316	2203-000386	0.015nF,5%,50V,NP0,TP,1005
C373	2203-000425	0.018nF,5%,50V,NP0,TP,1005
C478	2203-000425	0.018nF,5%,50V,NP0,TP,1005
C231	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C304	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C306	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C313	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C323	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C400	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C403	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C411	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C412	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C413	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C427	2203-000438	1nF,10%,50V,X7R,TP,1005,-
C382	2203-000440	1nF,10%,50V,X7R,TP,1608,-
C324	2203-000489	2.2nF,10%,50V,X7R,TP,1005,-
C353	2203-000489	2.2nF,10%,50V,X7R,TP,1005,-
C346	2203-000530	2.7nF,10%,50V,X7R,TP,1005,-
C203	2203-000550	0.02nF,5%,50V,NP0,TP,1005
C204	2203-000550	0.02nF,5%,50V,NP0,TP,1005
C117	2203-000628	0.022nF,5%,50V,NP0,TP,1005
C241	2203-000628	0.022nF,5%,50V,NP0,TP,1005
C396	2203-000628	0.022nF,5%,50V,NP0,TP,1005
C398	2203-000628	0.022nF,5%,50V,NP0,TP,1005
C156	2203-000679	0.027nF,5%,50V,NP0,TP,1005
C180	2203-000679	0.027nF,5%,50V,NP0,TP,1005
C416	2203-000696	0.002nF,0.25pF,50V,NP0,TP,1005
C456	2203-000696	0.002nF,0.25pF,50V,NP0,TP,1005
C329	2203-000783	0.33nF,5%,50V,NP0,TP,1608
C107	2203-000885	4.7nF,10%,25V,X7R,TP,1005,-
C433	2203-000885	4.7nF,10%,25V,X7R,TP,1005,-
C225	2203-000940	470pF,10%,50V,X7R,TP,1005,-
C375	2203-000940	470pF,10%,50V,X7R,TP,1005,-

C363	2203-001072	0.056nF,5%,50V,NP0,TP,1005
C418	2203-001072	0.056nF,5%,50V,NP0,TP,1005
C119	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C120	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C121	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C122	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C123	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C124	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C125	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C126	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C130	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C131	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C132	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C133	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C134	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C135	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C136	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C166	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C167	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C168	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C169	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C170	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C307	2203-001153	0.068nF,5%,50V,NP0,TP,1005
C442	2203-001210	8.2nF,10%,16V,X7R,TP,1005,-
C105	2203-001259	0.008nF,0.5pF,50V,NP0,TP,1005
C106	2203-001259	0.008nF,0.5pF,50V,NP0,TP,1005
C174	2203-001259	0.008nF,0.5pF,50V,NP0,TP,1005
C107	2203-005050	0.0018nF,0.25pF,50V,NP0,TP,1005
C316	2203-005053	0.0039nF,0.25pF,50V,NP0,TP,1005
C108	2203-005053	0.0039nF,0.25pF,50V,NP0,TP,1005
C245	2203-005054	0.0047nF,0.25pF,50V,NP0,TP,1005
C101	2203-005055	0.0056nF,0.25pF,50V,NP0,TP,1005
C101	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C102	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C104	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C105	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C106	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C108	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C109	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C110	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C111	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C112	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C114	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C115	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C118	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005
C127	2203-005061	100nF,+80-20%,16V,Y5V,TP,1005

C142	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C143	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C145	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C160	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C161	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C163	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C174	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C205	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C206	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C207	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C208	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C209	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C211	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C218	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C219	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C230	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C232	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C233	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C240	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C201	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C202	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C210	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C211	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C215	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C226	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C231	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C232	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C236	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C242	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C243	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C248	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C257	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C258	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C266	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C270	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C279	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C288	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C295	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C299	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C219	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C254	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C266	2233-005061	100nF,+80-20%,16V,Y5V,TP,1005
C248	2233-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C262	2233-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C210	2233-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C221	2233-005065	1000nF,+80-20%,10V,Y5V,TP,1608

C222	2203-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C223	2203-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C224	2203-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C367	2203-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C176	2203-005065	1000nF,+80-20%,10V,Y5V,TP,1608
C433	2203-005281	0.0015nF,0.1pF,50V,NP0,TP,1005
C122	2203-005393	0.005nF,0.1pF,50V,NP0,TP,1005
C472	2203-005393	0.005nF,0.1pF,50V,NP0,TP,1005
C390	2203-005446	0.0027nF,0.1pF,50V,NP0,TP,1005
C376	2203-005480	33nF,10%,10V,X7R,TP,1005,-
C130	2203-005481	47nF,10%,10V,X7R,TP,1005,-
C165	2203-005481	47nF,10%,10V,X7R,TP,1005,-
C356	2203-005494	220nF,10%,10V,X7R,TP,1608,-
C365	2203-005496	220nF,+80-20%,10V,Y5V,TP,1005
C149	2404-001088	2.2uF,20%,6.3V,GP,TP,2012,-
C120	2404-001088	2.2uF,20%,6.3V,GP,TP,2012,-
C127	2404-001088	2.2uF,20%,6.3V,GP,TP,2012,-
C123	2404-001088	2.2uF,20%,6.3V,GP,TP,2012,-
C134	2404-001088	2.2uF,20%,6.3V,GP,TP,2012,-
C236	2404-001088	2.2uF,20%,6.3V,GP,TP,2012,-
C237	2404-001088	2.2uF,20%,6.3V,GP,TP,2012,-
C141	2404-001105	10UF,20%,6.3V,GP,TP,2012
C150	2404-001105	10UF,20%,6.3V,GP,TP,2012
C151	2404-001105	10UF,20%,6.3V,GP,TP,2012
C126	2404-001105	10UF,20%,6.3V,GP,TP,2012
C129	2404-001105	10UF,20%,6.3V,GP,TP,2012
C160	2404-001105	10UF,20%,6.3V,GP,TP,2012
C164	2404-001105	10UF,20%,6.3V,GP,TP,2012
C180	2404-001105	10UF,20%,6.3V,GP,TP,2012
C128	2404-001105	10UF,20%,6.3V,GP,TP,2012
C164	2404-001151	33UF,20%,6.3V,LZ,TP,3216
C135	2404-001151	33UF,20%,6.3V,LZ,TP,3216
C139	2404-001151	33UF,20%,6.3V,LZ,TP,3216
C143	2404-001151	33UF,20%,6.3V,LZ,TP,3216
C149	2404-001151	33UF,20%,6.3V,LZ,TP,3216
L305	2703-000143	180nH,10%,0.8x1.6x0.8mm
L314	2703-000175	270nH,10%,0.8x1.6x0.8mm
L302	2703-000190	330nH,10%,0.8x1.6x0.8mm
L309	2703-001181	27nH,10%,1x0.5x0.5mm
L309	2703-001242	4.7uH,10%,1.6x0.8x0.8mm
L313	2703-001242	4.7uH,10%,1.6x0.8x0.8mm
L318	2703-001263	4.7nH,10%,1x0.5x0.5mm
L327	2703-001263	4.7nH,10%,1x0.5x0.5mm
L301	2703-001727	22nH,5%,1x0.5x0.5mm
L321	2703-001727	22nH,5%,1x0.5x0.5mm
L322	2703-001728	1.5nH,0.3nH,1x0.5x0.5mm

L338	2793-001729	1.8nH,0.3nH,1x0.5x0.5mm
L311	2793-001730	15nH,5%,1x0.5x0.5mm
L323	2793-001733	8.2nH,5%,1x0.5x0.5mm
L334	2793-001733	8.2nH,5%,1x0.5x0.5mm
L312	2793-001734	6.8nH,5%,1x0.5x0.5mm
L308	2703-001735	3.9nH,10%,1x0.5x0.5mm
L30	2793-001735	3.9nH,10%,1x0.5x0.5mm
L304	2793-001752	39nH,5%,1.0x0.5x0.5mm
L335	2793-001786	10NH,5%,1.0X0.5X0.5MM
L306	2793-001790	3.3NH,0.3NH,1.0X0.5X0.5MM
L314	2793-001790	3.3NH,0.3NH,1.0X0.5X0.5MM
L313	2793-001790	3.3NH,0.3NH,1.0X0.5X0.5MM
L303	2793-001860	150NH,5%,1.6X0.8X0.8MM
L303	2793-001868	82NH,5%,1005
L304	2793-001868	82NH,5%,1005
L324	2793-002028	12nH,5%,1.0x0.5x0.5mm
L326	2793-002028	12nH,5%,1.0x0.5x0.5mm
L310	2793-002036	330uH,5%,3.2x2.5x2mm
L325	2793-002039	16NH.5%,2.29x1.73x1.52mm
L302	2891-003856	0.032786MHz,20ppm,28-ACP,7pF,65kohm,TP
OS3301	2896-001242	998-1025/2059-2121M,-,-,TP,2.7V,10mA
OS3303	2896-001243	175.05/210.09MHz,-,-,TP,2.7V,5mA
OS3302	2899-001242	14.4MHz,2ppm,0.2ppm,TP,2.8V,-
L301	2993-001235	BP,0.45MHz,-,6dB,0.5dB,TP,-
L304	2993-001235	BP,0.45MHz,-,6dB,0.5dB,TP,-
L309	2994-001172	836.5MHz,25MHz,+/-12.5MHz/1.5,TP, +/-12.5MHz/2.5dB,DC-800MHz/25dB
L310	2994-001172	836.5MHz,25MHz,+/-12.5MHz/1.5,TP, +/-12.5MHz/2.5dB,DC-800MHz/25dB
L304	2994-001173	881.5MHz,25MHz,+/-12.5MHz/2dB,TP, +/-12.5MHz/3.5dB,DC-779MHz/25dB
L302	2994-001270	130.05MHz,0.024MHz,+/-10.5KHz/0.5dB,TP, +/-0.024MHz/6dB,+/-0.1MHz/25dB
L306	2999-001119	881.5MHz,836.5MHz,4/3dB,TP,56dB,40dB
AB301	3392-001062	88dB,3.6V,90mA,2.731KHz,TP
L301	3391-001438	AB,75ohm,1x0.5x0.5mm,100mA,TP,FERRITE,0.8ohm
L302	3391-001438	AB,75ohm,1x0.5x0.5mm,100mA,TP,FERRITE,0.8ohm
L305	3391-001438	AB,75ohm,1x0.5x0.5mm,100mA,TP,FERRITE,0.8ohm
L302	3795-001178	SMC,JACK,100MOHM,50OHM,.5DB
CN101	3798-001396	22P,0.5MM,SMD-A,SN
CR201	3790-001634	24P,1R,0.5mm,SMD-A,AUF
CN102	3791-004289	BOX,30P,2R,0.5MM,SMD-S,AUF
L303	3792-001456	2P,2.6PI,AUF,BLK,-

F013	4729-001226	800-850MHz,15.5dB,24dB,2x1.25x1mm,TP
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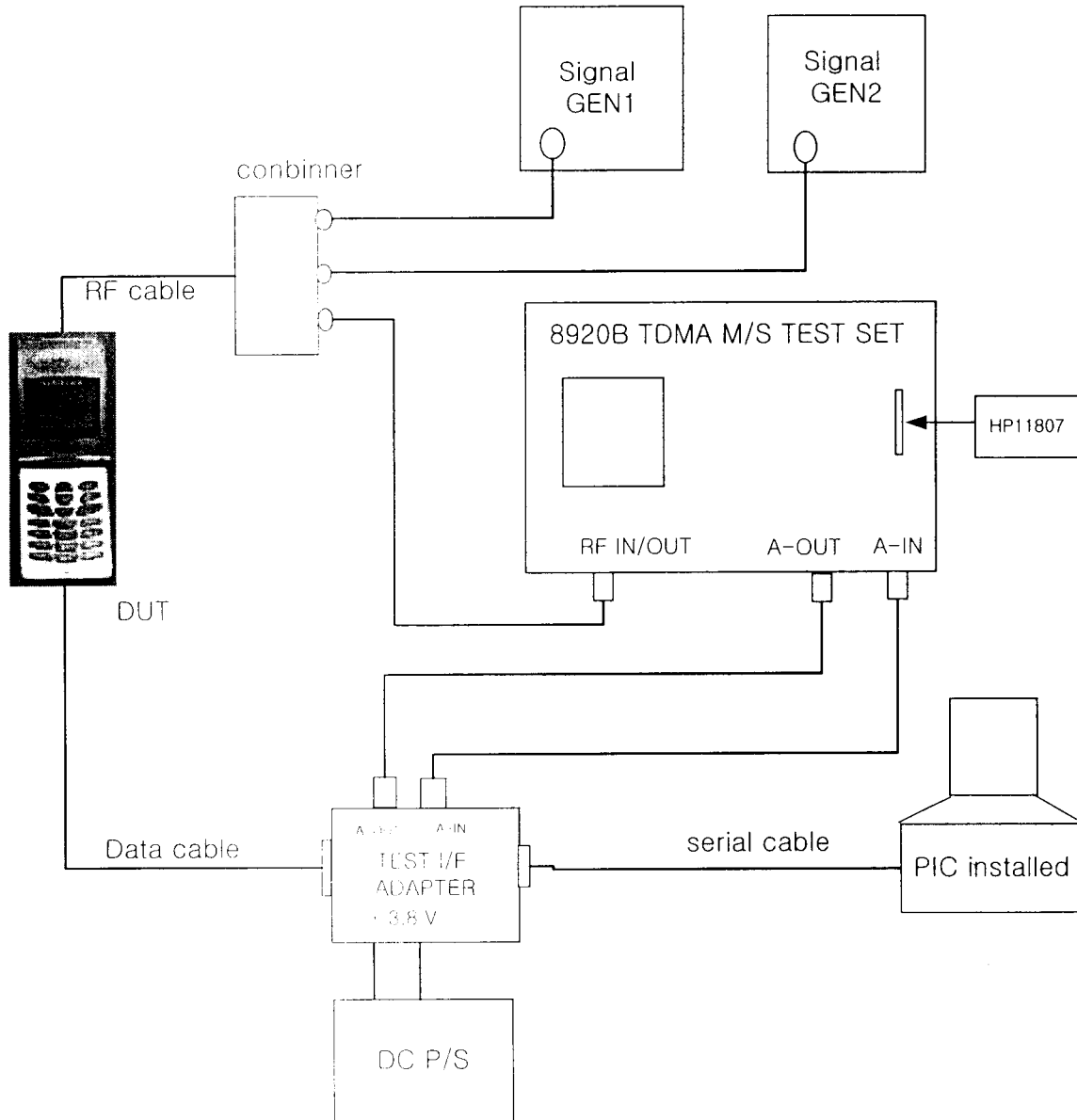
4. TEST PROCEDURE

1. List of Equipment

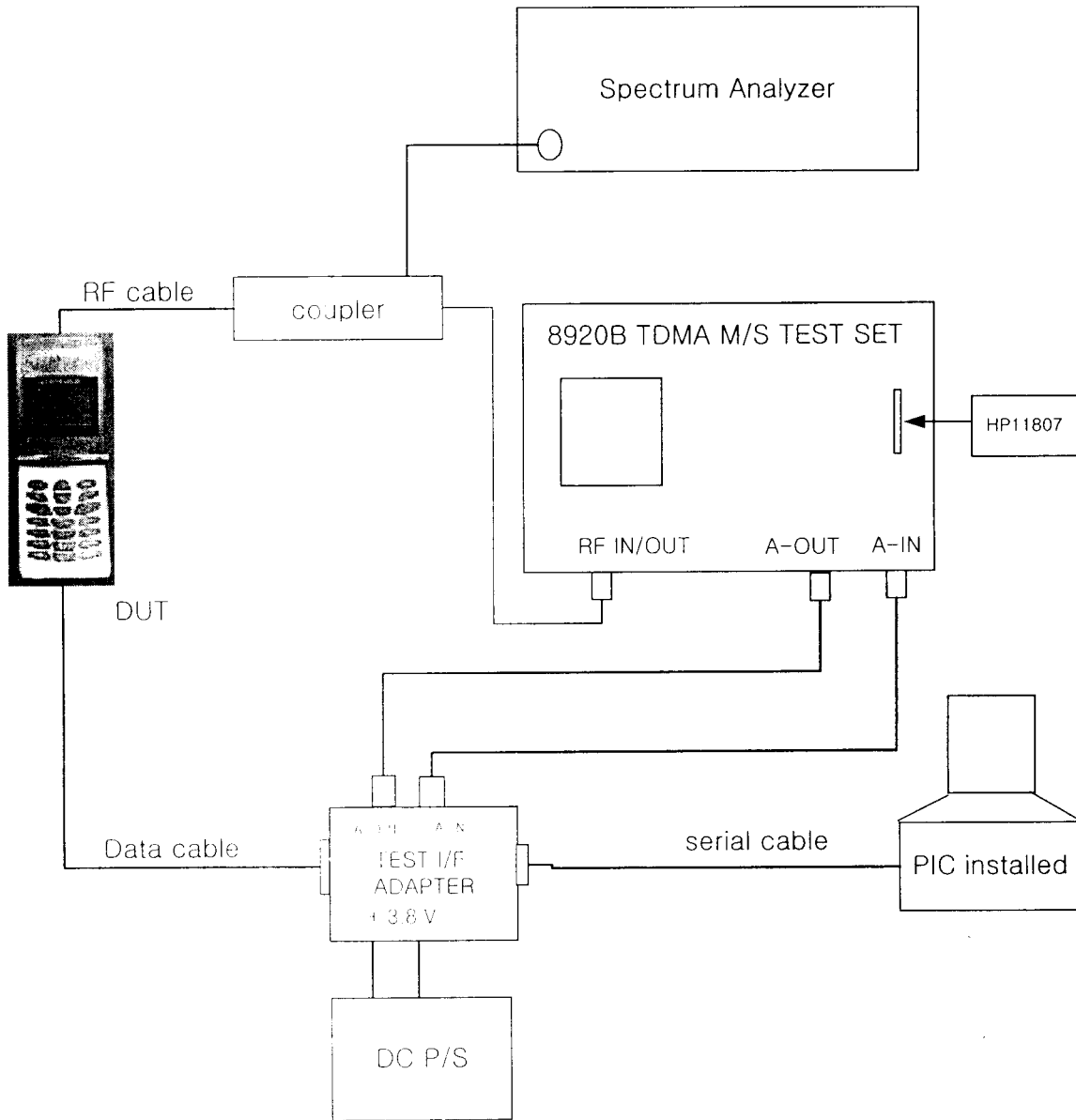
- 8920B TDMA M/S TEST SET (HP 11807E CARD)
- SIGNAL GENERATOR (2 SETS)
- SPECTRUM ANALYZER
- DEVICE UNDER TEST (STH-A225)
- TEST INTERFACE ADAPTER
- CONBINNER
- DC POWER SUPPLY
- PC (PIC program installed)
- Cables (RF CABLE, DATA CABLE, SERIAL CABLE, etc.)

2. Configuration of Test

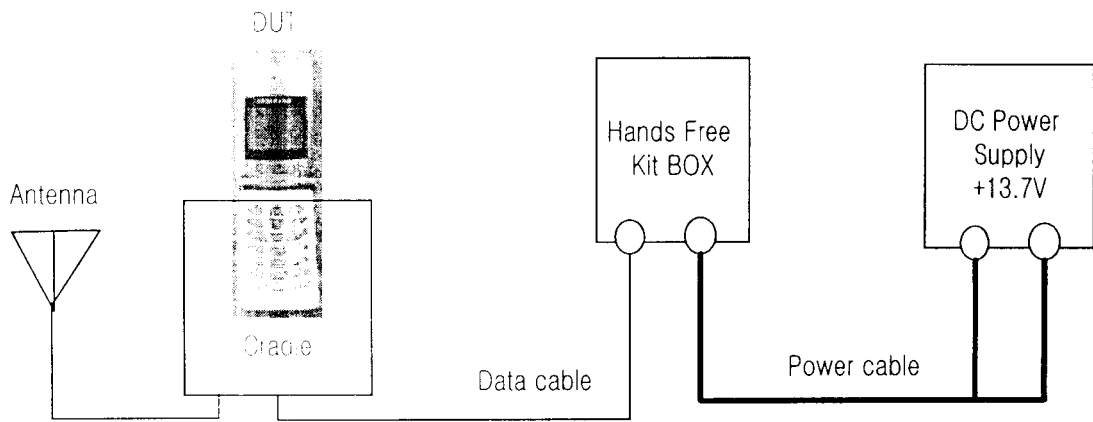
2-1. Test Configuration-1



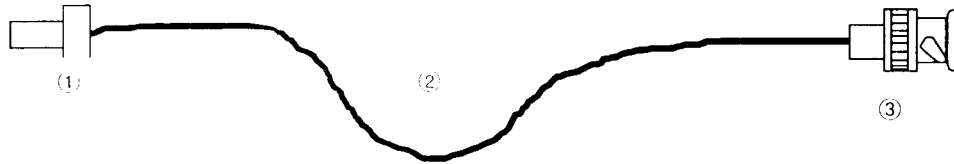
2-2. Test Configuration-2



2-3. Test Configuration-3 (Hands Free Kit)



RF CABLE



DATA CABLE

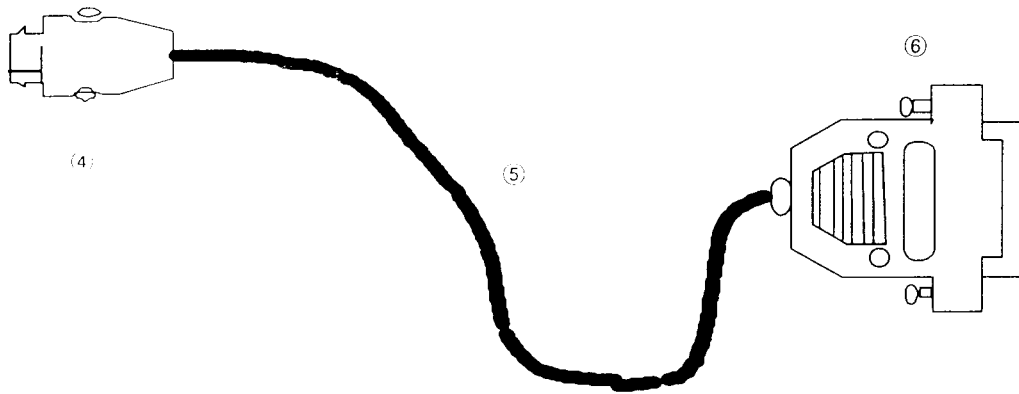


Table 3-Test Cable description

	NAME	DESCRIPTION
(1)	RF CONNECTOR	Hock up to DUT RF switch
(2)	RF CABLE	Line loss 1.5dB cable
(3)	BNC CONNECTOR	Connect to TEST equipment
(4)	INTERFACE CONNETOR	Hock up to DUT Button connector (Table 4)
(5)	DATA CABLE	Normal data cable
(6)	DSUB 25PIN CONNECTOR	Connect to TEST I/F ADAPTOR (Table 5)

Table 4– Interface Button Connector

CN201 Pin	Signal Name	Comment
1	GBOOT_DI	BOOT & Data IN (serial interface)
2	SCLK	Serial Interface clock
3	DSR	UART1 signal
4	SIN2	UART2 IN signal
5	DO	Data OUT (serial interface)
6	SOUT2	UART2 OUT signal
7	RX_AUDIO	HFK audio receiver signal
8	GND	
9	C_FNSTRB	Battery interface & Strobe (serial interface)
10	GND	
11	TX_AUDIO	HFK audio transmitter signal
12	GND	
13	DP_RX_DATA	UART1 RX signal
14	DP_TX_DATA	UART1 TX signal
15	HP_PWR	External power (Test I/F Adapter / HFK)
16	RI	UART1 signal
17	CD	UART1 signal
18	V_F	Battery interface signal
19	GND	
20	RTS	UART1 signal
21	BAFF	
22	BAFF	
23	CTS	UART1 signal
24	DTR	UART1 signal
25	GND	
26	C_FNSTRB	Battery interface & Strobe (serial interface)
27	V_F	Battery interface signal
28	BAFF	

Table 5– DSUB 25pin Connector

DSUB 25Pin	Signal Name	Comment
1	GND	
2	NC	
3	NC	
4	BATT	
5	NC	
6	BATT	
7	HP_PWR	External power (Test I/F Adapter / HFK)
8	NC	
9	NC	
10	TX_AUDIO	HFK audio transmitter signal
11	GND	
12	RX_AUDIO	HFK audio receiver signal
13	GND	
14	NC	
15	GND	
16	NC	
17	NC	
18	SIN2	UART2 OUT signal
19	SOFT2	UART2 IN signal
20	NC	
21	DP_RX_DATA	UART1 RX signal
22	DP_TX_DATA	UART1 TX signal
23	GBOOT_DI	BOOT & Data IN (serial interface)
24	NC	
25	NC	

3. Auto test procedure (with HP 11807E card)

- a). **Set up** all test equipment like as **Test configuration-1**
- b). **Insert HP 11807E** Card on the HP8920B Test Set
- c). **Power ON** phone
- d). **Run** PIC program
- d). **Send** command:
 - i) Analog mode: change audio path normal to HFK by using the PIC program for Analog RX sensitivity (SINAD)
 - ii) Digital mode: change mode LOOPBACK for Digital RX sensitivity (BER)
- e). **Run** AUTO Test
- f). **Store** data if required
- g). TEST items (refer Chapter 1.Specification)

Items	TIA/EIA-137-270
RXA Electrical Audio Response	2.2.2.1
RXA Expander Output	2.2.2.3
RXA Hum and Noise	2.2.2.4
RXA Audio Harmonic Distortion	2.2.2.5
RXA RF Sensitivity	2.3.1.1
TXA RF Power Output	3.2.1.1
TXA Modulation Type & Stability	3.3.1.1
TXA Compressor Output	3.3.1.2.1
TXA Electrical Audio Response	3.3.1.2.2
TXA Modulation Deviation Limiting	3.3.1.2.3
TXA Wideband Data	3.3.1.3
TXA Hum and Noise	3.3.1.6
TXA Modulation Distortion and Noise	3.3.1.8
TXD RF Power Output	3.2.1.2
TXD Modulation Type and Accuracy	3.3.2.1
TXD Adjacent & Spurious Emission	3.4.2.2

4. Manual test procedure (with PIC program)

4-1.RXA Audio Muting (Ref 2.2.2.2)

- a). **Set up** all test equipment like as **Test configuration-1**

RF amplitude: -50dBm,

Setup channel: 383ch

SAT : 6000Hz

- b). **Power ON and Make call**

- c). **Run** PIC program (execute Audio_Mute_off.pic)

< Audio_Mute_off.pic >

// PIC Script File

// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern

// On: Friday, September 15, 2000 at 15:06:54

submit 0x40C "(40C)- Audio_Set_Path" ;1; //

wait 10

submit 0x40D "(40D)- Audio_Codec_Control" ;1;

wait 10

submit 0x40E "(40E)- Audio_Ringer_Control" ;1;

wait 10

submit 0x410 "(410)- Audio_Microphone_Control" ;1;

wait 10

submit 0x411 "(411)- Audio_Earphone_Settings" ;1;0;50;

wait 10

submit 0x032 "(032)- PH DSPC Host Interface" ;1;139;01;0; // MUTE OFF, compander ON

- d). **Measure** AC level of audio in

AFGen: 1004Hz

FM: 8KHz de

- e). **Send** command **RXMUTE** and **Measure** AC level of audio in

- f). **Compare** value of d). and e).

4-2.RXA Adjacent and Alternate Channel Desensitization (Ref 2.3.1.2)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel RF amplitude based on standard 2.3.1.2.2
- b). **Power ON and Make call**
- c). **Run PIC program** (execute Audio_Path.pic)
<Audio_Path.pic>
// PIC Script File
// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
// On: Saturday, August 05, 2000 at 09:24:41

submit 0x40C "(40C)- Audio_Set_Path" ;1;
wait 100
submit 0x40D "(40D)- Audio_Codec_Control" ;1;
wait 100
submit 0x410 "(410)- Audio_Microphone_Control" ;1;
wait 100
submit 0x411 "(411)- Audio_Earphone_Settings" ;1;0;50;
- d). **Measure Power of Adjacent channel (Signal Generator) to meet 12dB SINAD**
based on standard 2.3.1.2.2
- e). **Measure Power of Alternate channel (Signal Generator) to meet 12dB SINAD**
based on standard 2.3.1.2.2

4-3.RXA Inter-modulation Spurious Response Attenuation (Ref 2.3.1.3)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel RF amplitude based on standard 2.3.1.3.2
- b). **Power ON and Make call**
- c). **Run PIC program** (execute Audio_Path.pic)
<Audio_Path.pic>
// PIC Script File
// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
// On: Saturday, August 05, 2000 at 09:24:41

submit 0x40C "(40C)- Audio_Set_Path" ;1;
wait 100
submit 0x40D "(40D)- Audio_Codec_Control" ;1;
wait 100
submit 0x410 "(410)- Audio_Microphone_Control" ;1;
wait 100
submit 0x411 "(411)- Audio_Earphone_Settings" ;1;0;50;
- d). **Measure Power of Intermodulation channel (2-Signal Generator) to meet 12dB SINAD**
based on standard 2.3.1.3.2

4-4.RXA Protection Against Spurious Response Interference (Ref 2.3.1.4)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel: RF amplitude based on standard **2.3.1.4.2**
- b). **Power ON and Make call**
- c). **Run PIC program** (execute Audio_Path.pic)
<Audio_Path.pic>
// PIC Script File
// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
// On: Saturday, August 05, 2000 at 09:24:41

submit 0x40C "(40C)- Audio_Set_Path" ;1;
wait 100
submit 0x40D "(40D)- Audio_Codec_Control" ;1;
wait 100
submit 0x410 "(410)- Audio_Microphone_Control" ;1;
wait 100
submit 0x411 "(411)- Audio_Earphone_Settings" ;1;0;50;
- d). **Measure** Power of undesired input (Signal Generator) to meet 12dB SINAD based on standard **2.3.1.4.2**

4-5.RXA Conducted Spurious Emission (Ref 2.4.1)

- a). **Set up** all test equipment like as **Test configuration-2**
Setup spectrum analyzer based on standard **2.4.2**
- b). **Run PIC program**
- c). Send command <submit offline mode> : transmitter off
- d). **Measure** Spurious emission based on standard **2.4.2 and 2.4.3**

4-6.RXA RSSI (Ref 2.6.1)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel: RF amplitude based on standard **2.6.1.2**
- b). **Power ON and Make call**
- c). **Measure** RSSI by test mode in the telephone based on standard **2.6.1.2**

4-7.TXA Audio Muting (Ref 3.3.1.2.4)

- a). **Set up** all test equipment like as **Test configuration-1**
RF amplitude: -50dBm.
Setup channel: 383ch
SAT : 6000Hz
- b). **Power ON and Make call**
- c). **Run PIC program** (execute Audio_Mute_off.pic)
<RXA_Audio_Mute_off.pic>
// PIC Script File
// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
// On: Friday, September 15, 2000 at 15:06:54

```
submit 0x40C "(40C)- Audio_Set_Path" ;1; //  
wait 10  
submit 0x40D "(40D)- Audio_Codec_Control" ;1;  
wait 10  
submit 0x40E "(40E)- Audio_Ringer_Control" ;1;  
wait 10  
submit 0x410 "(410)- Audio_Microphone_Control" ;1;  
wait 10  
submit 0x411 "(411)- Audio_Earphone_Settings" ;1;0;50;  
wait 10  
submit 0x032 "(032)- PH DSPC Host Interface" ;1;139;01;0; // MUTE OFF, expander ON
```

- d). **Measure** FM deviation and Set Reference level
- e). **Send** command TXMUTE
- f). **Measure** relative FM deviation based on standard **3.3.1.2.4.3**

4-8.TXA Noise Suppression-Broadband (Ref 3.4.1.1)

- a). **Set up** all test equipment like as **Test configuration-2**
 - Setup channel 383ch
 - RF amplitude: -50dBm
 - Power Level: 0
 - SAT: 6000Hz
- b). **Power ON and Make call**
- c). **Run** PIC program:
- d). Send command SATOFF and Measure RF Output power of Carrier
- e). Execute <TXA_Noise_Spur.pic>
 - <TXA_Noise_Spur.pic >
 - // PIC Script File
 - // Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
 - // On: Saturday, August 05, 2000 at 09:24:41

```
submit 0x40C "(40C)- Audio_Set_Path" ;1;  
wait 100  
submit 0x40D "(40D)- Audio_Codec_Control" ;1;  
wait 100  
submit 0x410 "(410)- Audio_Microphone_Control" ;1;  
wait 100  
submit 0x411 "(411)- Audio_Earphone_Settings" ;1;0;50;  
wait 100
```
- f). Setup Noise and SAT tone based on standard **3.4.1.1.2** and **3.4.1.1.3**
- g). Send command SATON
- h). Send disable compressor < submit 0x032 "(032)- PH DSPC Host Interface" ;1;139;00;0;>
- i). **Measure** the Spurious based on standard **3.4.1.1.3**

4-9.TXA Harmonic & Conducted Spurious Emission (Ref 3.4.2.1)

a). **Set up** all test equipment like as **Test configuration-2**

Setup channel 383ch
RF amplitude: -50dBm
Power Level: 0
SAT: 6000Hz

b). **Power ON and Make call**

c). **Run** PIC program

d). Send command **SATOFF** and Measure RF Output power of Carrier

e). Execute <TXA_Noise_Spur.pic>

<TXA_Noise_Spur.pic >

// PIC Script File

// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern

// On: Saturday, August 05, 2000 at 09:24:41

submit 0x40C "(40C)- Audio_Set_Path" ;1;

wait 100

submit 0x40D "(40D)- Audio_Codec_Control" ;1;

wait 100

submit 0x410 "(410)- Audio_Microphone_Control" ;1;

wait 100

submit 0x411 "(411)- Audio_Earphone_Settings" ;1;0;50;

wait 100

f). Setup Noise and SAT tone based on standard **3.4.2.1.2** and **3.4.2.1.3**

g). Send command **SATON**

h). Send disable compressor < submit 0x032 "(032)- PH DSPC Host Interface" ;1;139;00;0;>

i). **Measure** the Spurious based on standard **3.4.2.1.3**

4-10.RXD Receive Signal level Range Capability (Ref 2.3.2.1)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel. RF amplitude based on standard 2.3.1.2.2
- b). **Power ON and Make call**
- c). **Run** PIC program (execute Loopback.pic)
<Loopback.pic>
// PIC Script File
// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
// On: Sunday, July 30, 2000 at 14:30:30

submit 0x032 '(032)- PH DSPC Host Interface" ;1;152;04;0;
- d). **Measure** BER based on standard 2.3.2.1.1.3

4-11.RXD Adjacent and Alternate Channel Desensitization (Ref 2.3.2.2)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel. RF amplitude based on standard 2.3.2.2.2
- b). **Power ON and Make call**
- c). **Run** PIC program (execute Loopback.pic)
<Loopback.pic>
// PIC Script File
// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
// On: Sunday, July 30, 2000 at 14:30:30

submit 0x032 '(032)- PH DSPC Host Interface" ;1;152;04;0;
- d). **Measure** BER based on standard 2.3.2.2.3.

4-12.RXD Inter-modulation Spurious Response Attenuation (Ref 2.3.2.3)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel. RF amplitude based on standard 2.3.2.3.2
- b). **Power ON and Make call**
- c). **Run** PIC program (execute Loopback.pic)
<Loopback.pic>
// PIC Script File
// Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
// On: Sunday, July 30, 2000 at 14:30:30

submit 0x032 '(032)- PH DSPC Host Interface" ;1;152;04;0;
- d). **Measure** BER based on standard 2.3.2.3.3.

4-13.RXD Blocking and Spurious-Response (Ref 2.3.2.4)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel RF amplitude based on standard **2.3.2.4.1**
- b). **Power ON and Make call**
- c). **Run PIC program** (execute Loopback.pic)
 <Loopback.pic>
 // PIC Script File
 // Generated by: Version 4.01.2.20 modified 12.04.2000 by Gregory Stern
 // On: Sunday, July 30, 2000 at 14:30:30

 submit 0x032 '(032)- PH DSPC Host Interface" ;1;152;04;0;
- d). **Measure BER** based on standard **2.3.2.4.3**.

4-14.RXD Conducted Spurious Emission (Ref 2.4.1)

- a). **Set up** all test equipment like as **Test configuration-2**
Setup spectrum analyzer based on standard **2.4.2**
- b). **Run PIC program**
- c). Send command : submit offline mode> : transmitter off
- d). **Measure Spurious emission** based on standard **2.4.2 and 2.4.3**

4-15.RXD RSSI (Ref 2.6.1)

- a). **Set up** all test equipment like as **Test configuration-1**
Setup channel RF amplitude based on standard **2.6.1.2**
- b). **Power ON and Make call**
- c). **Measure RSSI** by test mode in the telephone based on standard **2.6.1.2**

4-16.TXD Harmonic & Conducted Spurious Emission (Ref 3.4.2.2)

- a). **Set up** all test equipment like as **Test configuration-2**
Setup channel :383ch
RF amplitude: -50dBm
Power Level: 0
- b). **Power ON and Make call**
- c). **Measure the Spurious** based on standard **3.4.2.2.3**