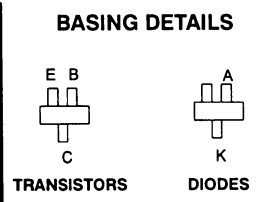
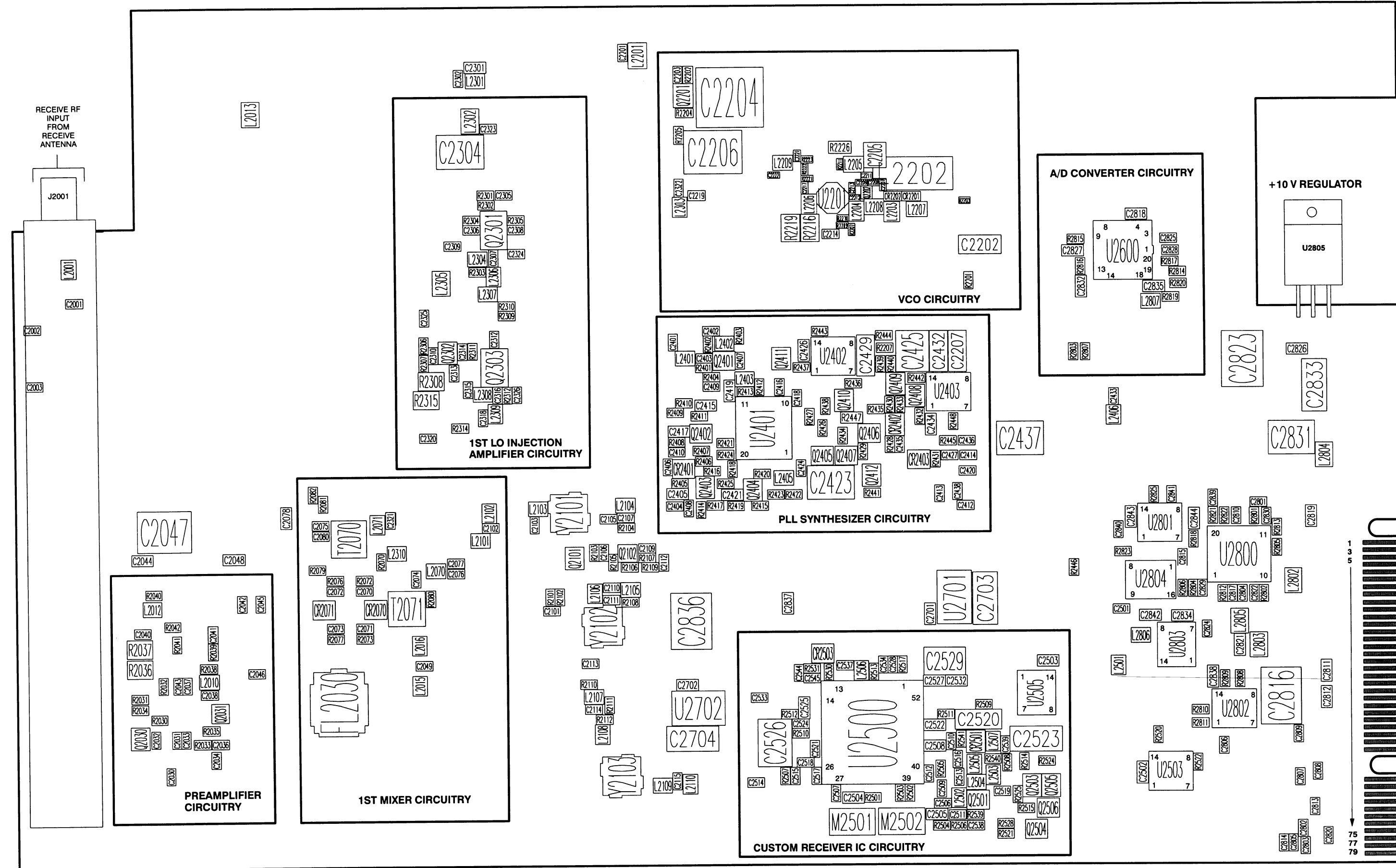


# 800 MHz RECEIVER MODULE

## MODEL TRF6551H



**NOTES:**

- THE CIRCUIT BOARD EDGE CONNECTOR HAS PRINTED CIRCUIT PLATED CONTACTS ON BOTH SIDES OF THE BOARD EDGE. THE COMPONENT SIDE CONTACTS ARE NUMBERED 1, 3, 5, ETC. THE SOLDER SIDE CONTACTS ARE NUMBERED 2, 4, 6, ETC.

SEE THE FOLLOWING TABLE FOR EDGE CONNECTOR PIN NUMBERING/SIGNAL NAME CROSS-REFERENCE.

PIN	SIGNAL NAME	PIN	SIGNAL NAME
1	GND	2	GND
3	GND	4	GND
5	EXT_SPARE1	6	EXT_SPARE2
7	EXT_SPARE3	8	EXT_SPARE4
9	EXT_SPARE5	10	EXT_SPARE6
11	EXT_SPARE7	12	EXT_SPARE8
13	EXT_SPARE9	14	EXT_SPARE10
15	EXT_SPARE11	16	EXT_SPARE12
17	RX_WB_AUDIO	18	GND
19	GND	20	GND
21	GND	22	+14.2 V INPUT
23	+14.2 V INPUT	24	+14.2 V INPUT
25	+14.2 V INPUT	26	+14.2 V INPUT
27	+5 V INPUT	28	+5 V INPUT
29	+5 V INPUT	30	+5 V INPUT
31	+5 V INPUT	32	+5 V INPUT
33	+5 V INPUT	34	+5 V INPUT
35	GND	36	GND
37	SPI_MISO	38	SPI_MOSI
39	SPI_CLK	40	RESET
41	HDLC_DATA	42	HDLC_BUSY
43	HDLC_CLK	44	TDM_SYNC
45	TDM_DATA	46	TDM_CLOCK
47	SPARE 1	48	SPARE 2
49	SPARE 3	50	SPARE 4
51	SPARE 5	52	SPARE 6
53	A0_CS1	54	A0_CS2
55	P5	56	A5
57	P4	58	A4
59	P3	60	A3
61	P2	62	A2
63	GND	64	GND
65	RX_2.1_REF	66	N/C
67	GND	68	GND
69	N/C	70	N/C
71	GND	72	GND
73	GND	74	AGC_IN
75	ODC	76	SBI
77	DATA	78	DATA*
79	GND	80	GND

# 800 MHz RECEIVER MODULE

## MODEL TRF6551H

### parts list

TRF6551H Receiver Module PL-13031-C

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION	REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION	REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION	REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION	REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION	REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
		<b>capacitor, fixed:</b>															
C2001	2113740G13	2.7 pF, ±0.1 pF, 50V	C2320	2113740G03	1 pF, ±0.1 pF, 50V	C2806 thru 2809	2113740A55	100 pF, ±5%, 50 V	L2309	2462587R17	CHIP IND 8.2 NH 2%	R2204	0611079A26	RES CHIP 10 5 1/10	R2509	0611079A56	RES FIXED CHIP 180 5 1/10W A/P
C2002,2003	2113740G15	3.3 pF, ±0.1 pF, 50V	C2321	2113740G13	2.7 pF, ±0.1 pF, 50V	C2810	2113740A33	15 pF, ±5%, 50 V	L2310	2462587R16	IND CHIP 4.7NH 5%	R2205	0611079A20	5.6 S 1/10W	R2510	0611079B33	RES FIXED CHIP 270K 5 1/10
C2030	2113740G09	1.8 pF, ±0.1 pF, 50V	C2322	2113740A19	4.7 pF, ±0.1 pF, 50V	C2811,2812	2113741B69	0.1 uF, ±5%, 50V	L2401	2462587X15	IND CHIP 4.7NH 5%	R2207	0611079A36	1500 ohms, ± 5%, 1/10W	R2511	1585034U03	COVER SHIELD MED (used with E2030)
C2031,2032	2113741A45	0.01 uF, ±5%, 50V	C2323	2113740G11	2.2 pF, ±0.1 pF, 50V	C2813 thru 2815	2113740A33	15 pF, ±5%, 50 V	L2402	2462587X51	CHIP LO-PRO IND 68 NH 5%	R2209	0662057A56	RES CHIP 2000 5 1/10W	R2512	0611079A21	RES FIXED CHIP 82.5 1/10W
C2033,2034	2113740A43	39 pF, ±5%, 50V	C2324	2113740G09	1.8 pF, ±0.1 pF, 50V	C2816	2380090M36	100 uF, 25V	L2403	2462587X41	CHIP LO-PRO IND 10 NH 5%	R2210	0662057B47	0 ±5%, 1/10W	R2513	1585034U04	COVER SHIELD LRG (used with E2070)
C2036	2113740A19	4.7 pF, ±0.25 pF, 50V	C2325	2113740G11	2.2 pF, ±0.1 pF, 50V	C2817	2113740A33	15 pF, ±5%, 50 V	L2405,2406	2462587X51	CHIP LO-PRO IND 68 NH 5%	R2211	0662057A56	RES CHIP 2000 5 1/10	R2514	0611079A98	10K ±5%, 1/10W
C2037,2038	2113740A19	4.7 pF, ±0.25 pF, 50V	C2326	2113740G09	1.8 pF, ±0.1 pF, 50V	C2818,2819	2113741B69	0.1 uF, ±5%, 50 V	L2501	2462587X57	CHIP LO-PRO IND 220 NH 5%	R2216	0611079A62	270 S 1/4W	R2515	1585034U09	COVER EXCITER LRG (used with E2201)
C2040	2113740A43	39 pF, ±5%, 50V	C2401	2113740G13	2.7 pF, ±0.1 pF, 50V	C2820	2113740A55	100 pF, ±5%, 50 V	L2502	2413923A17	CHIP IND 820 NH 2%	R2219	0611072A37	330 1/4W	R2517	0611079A42	47 ±5%, 1/10W
C2041	2113740A19	4.7 pF, ±0.25 pF, 50V	C2402,2403	2113740A43	39 pF, ±5%, 50V	C2821	2462587N72	CHIP IND 2200 NH 5%	L2503, 2504	2462587N72	CHIP IND 120 NH 2%	R2221	0662057A37	RES CHIP 330 5	R2520	0611079A46	RES FIXED CHIP 68 5 1/10W
C2042	2113740G09	1.8 pF, ±0.1 pF, 50V	C2404	2113740A19	4.7 pF, ±0.25 pF, 50V	C2822	2113740A33	15 pF, ±5%, 50 V	L2505	2413923A05	CHIP IND 120 NH 2%	R2222	0662057A05	RES CHIP 15 5	R2521	0611079A34	RES FIXED CHIP 22 5 1/10W
C2043	2113741A45	0.01 uF, ±5%, 50V	C2405	2113741B69	0.1 uF, ±5%, 50V	C2823	2380090M36	100 uF, 25V				R2223	0662057A37	RES CHIP 330 5	R2522	0611079A46	RES FIXED CHIP 68 5 1/10W
C2044	2113741B69	0.1 uF, ±5%, 50 V	C2406 thru 2408	2113740A43	39 pF, ±5%, 50V	C2824	2113741A45	0.01 uF, ±5%, 50V	L2506	2462587N71	CHIP IND 1800 NH 5%	R2226	0611077A66	470 S 1/8W	R2524	0611079A98	10K ±5%, 1/10W
C2045	2113740G09	1.8 pF, ±0.1 pF, 50V	C2409	2113740A79	1000 pF, ±5%, 50V	C2825	2113740A71	470 pF, ±5%, 50V	L2507	2413923A07	CHIP IND 180 NH 2%	R2301	0611079A66	RES FIXED CHIP 470 5 1/10W	R2525	0611079A62	RES FIXED CHIP 330 5 1/10W
C2046	2113740G15	3.3 pF, ±0.1 pF, 50V	C2410	2113741A45	0.01 uF, ±5%, 50V	C2826,2827	2113741B69	0.1 uF, ±5%, 50 V	L2802 thru 2805	2484657R01	fermite bead	R2302	0611079A72	RES FIXED CHIP 820 5 1/10W	R2528	0611079A34	RES FIXED CHIP 22 5 1/10W
C2047	2380090M36	100 uF, 25V	C2412 thru 2414	2113740A43	39 pF, ±5%, 50V	C2828	2462587X51	470 pF, ±5%, 50V	L2806	2462587X51	CHIP LO-PRO IND 68 NH 5%	R2303	0611079A54	RES FIXED CHIP 150 5 1/10W	R2530	0611079A98	10K ±5%, 1/10W
C2048	2113741B69	0.1 uF, ±5%, 50 V	C2415	2113741B69	0.1 uF, ±5%, 50 V	C2829,2830	2113740A33	15 pF, ±5%, 50 V	L2807	2462587N71	CHIP IND 1800 NH 5%	R2304,2305	0611079A52	RES FIXED CHIP 120 5 1/10W A/P	R2531	0611079B11	RES FIXED CHIP 33K 5 1/10 A/P
C2049	2113740A43	1 pF, ±0.1 pF, 50V	C2416	2113740A43	39 pF, ±5%, 50V	C2831	2380090M24	100 uF, ±20%, 50V				R2306	0611079A82	2200 5 1/10	R2539	0611079A66	RES FIXED CHIP 470 5 1/10W
C2070 thru 2073	2113741A45	0.01 uF, ±5%, 50V	C2417	2113741B69	0.1 uF, ±5%, 50 V	C2832	2113741B69	0.1 uF, ±5%, 50 V	Q2300	4813824A17	PNP	R2307	0611079A74	1K ±5%, 1/10W	R2540	0611079A62	RES FIXED CHIP 330 5 1/10W
C2074	2113740A17	3.9 pF, ±0.25 pF, 50V	C2418	2113740A43	39 pF, ±5%, 50V	C2833	2311049A21	22 uF, ±10%, 20 V	Q2031	4813827A15	TSTR NPN SML SIG MRF5711LT1 02	R2308	0611072A21	68 ohms, ±5%, 1/4W	R2541	0611079A98	10K ±5%, 1/10W
C2075	2113740A43	39 pF, ±5%, 50V	C2419	2113741B69	0.1 uF, ±5%, 50 V	C2834,2835	2113741B69	0.1 uF, ±5%, 50 V	Q2101	4813824A10	PNP	R2309	0611079A42	47 ±5%, 1/10W	R2601	0611079A98	10K ±5%, 1/10W
C2076	2113740A17	3.9 pF, ±0.25 pF, 50V	C2420	2113740A43	39 pF, ±5%, 50V	C2836	2380090M36	100 uF, 25V				R2310	0611079A66	RES FIXED CHIP 470 5 1/10W	R2602	0611079A70	RES FIXED CHIP 680 5 1/10W
C2077	2113741A45	0.01 uF, ±5%, 50V	C2421	2113741B69	0.1 uF, ±5%, 50 V	C2837,2838	2113741B69	0.1 uF, ±5%, 50 V	Q2102	4885228U05	TSTR GAAS DL GATE MESFET_U73	R2311	0611079A72	RES FIXED CHIP 820 5 1/10W	R2603	0611079A98	10K ±5%, 1/10W
C2078	2113741B69	0.1 uF, ±5%, 50 V	C2423	2380090M24	10 uF, ±20%, 50V	C2839 thru 2841	2113740A55	100 pF, ±5%, 50V	Q2201	4885228U03	TSTR NPN 6V 30uA 12GHz NE68519	R2312	0611079A66	RES FIXED CHIP 470 5 1/10W	R2604	0611079A66	RES FIXED CHIP 470 5 1/10W
C2080	2113740A43	39 pF, ±5%, 50V	C2424	2113740A43	39 pF, ±5%, 50V	C2842 thru 2844	2113741B69	0.1 uF, ±5%, 50 V	Q2202	4885228U03	TSTR NPN 6V 30uA 12GHz NE68519	R2314	0611079A01	O ohms, ±5%, 1/10W	R2605	0611079A42	47 ±5%, 1/10W
C2101	2113741A45	0.01 uF, ±5%, 50V	C2425	0811051A18	0.68 uF, ±5%, 63V				Q2301	4813827A26	TSTR NPN SML SIG MRF8372 8372	R2315	0611072A21	68 ohms, ±5%, 1/4W	R2606	0611079A66	RES FIXED CHIP 470 5 1/10W
C2102	2113740A27	8.2 pF, ±0.25 pF, 50V	C2426	2113741B69	0.1 uF, ±5%, 50 V	CR2070,2071	4882290T04	Diode; Hot Carrier	Q2302	4813824A17	PNP	R2401	0611079A92	RES FIXED CHIP 5600 5 1/10	R2607 thru 2611	0611079A98	10K ±5%, 1/10W
C2103	2113740A24	6.8 pF, ±0.25 pF, 50V	C2427	2113740A43	39 pF, ±5%, 50V	CR2201,2202	4862824C01	Diode; Varactor	Q2303	4813827A26	TSTR NPN SML SIG MRF8372 8372	R2402	0611079A88	RES FIXED CHIP 3900 5 1/10 A/P	R2612	0611079A70	RES FIXED CHIP 680 5 1/10W
C2105	2113740A19	4.7 pF, ±0.25 pF, 50V	C2429	0811051A11	0.047 uF, ±5%, 63V	CR2401	4813825A05	Hot Carrier	Q2401	4813827A03	PNP	R2403	0611079A60	RES FIXED CHIP 270 5 1/10W	R2613	0611079A98	10K ±5%, 1/10W
C2106	2113741A45	0.01 uF, ±5%, 50V	C2432	0811051A09	0.022 uF, ±5%, 63 V	CR2402,2403	4813833C10	0.022 uF, ±5%, 63 V	Q2404	4813824A10	PNP	R2404 thru 2406	0611079A82	2200 5 1/10	R2614	0611079A86	RES FIXED CHIP 3300 5 1/10
C2107	2113740G05	4.7 pF, ±0.1 pF, 50V	C2433	2113740A43	39 pF, ±5%, 50V	CR2501	4813825A01	3V, dual	Q2405 thru 2408	4813824A17	PNP	R2407	0611079A74	1K ±5%, 1/10W	R2615	0611079A84	RES FIXED CHIP 2700 5 1/10
C2108,2109	2113741A45	0.01 uF, ±5%, 50V	C2434	2113741B69	0.1 uF, ±5%, 50V	CR2503	4813825A01	3V, dual	Q2409	4813824A10	PNP	R2408	0611079A98	10K ±5%, 1/10W	R2616	0611079A76	1.2K ±5%, 1/10W
C2110,2111	2113740A27	8.2 pF, ±0.25 pF, 50V	C2435,2436	2113740A43	39 pF, ±5%, 50V				Q2410	4813824A10	PNP	R2409	0611079A72	RES FIXED CHIP 820 5 1/10W	R2617	0611079A90	RES FIXED CHIP 4700 5 1/10
C2112	2113741A45	0.01 uF, ±5%, 50V	C2437	2380090M24	10 uF, ±20%, 50V	FL2000	9184682T01	filter: FILTER CERAMIC 800MHZ	Q2411	4813824A10	PNP	R2410	0611079A50	100 S 1/10W	R2618	0611079A98	10K ±5%, 1/10W
C2113	2113740G09	1.8 pF, ±0.1 pF, 50V	C2438	2113740A43	39 pF, ±5%, 50V	FL2030	5105279V10	HYBRID TRIM AND TEST 79V10	Q2412	4813824A10	PNP	R2411	0611079A36	27 5 1/10W	R2619	0611079B09	27K ±5%, 1/10W
C2114	2113740G11	2.2 pF, ±0.1 pF, 50V	C2501	2113741A45	0.01 uF, ±5%, 50V	M2501,2502	9185128U02	FLTR L-C 450KHZ LCF-450	Q2501	4813827A03	PNP	R2412	0611079A38	chip 33 5 1/10 W	R2620	0611079A98	10K ±5%, 1/10W
C2115	2113740G15	3.3 pF, ±0.1 pF, 50V	C2502 thru 2505	2113741B69	0.1 uF, ±5%, 50 V				Q2503 thru 2506	4813824A10	PNP	R2413	0611079A54	RES FIXED CHIP 150 5 1/10W	R2621	0611079A42	47 ±5%, 1/10W
C2201	2113740A43	39 pF, ±5%, 50V	C2506	2113740A21	5.6 pF, ±0.25 pF, 50V							R2414	0611079A01	O ohms, ±5%, 1/10W	R2622	0611079A98	10K ±5%, 1/10W
C2202	0811051A09	0.022 uF, ±5%, 63V	C2507	2113741A45	0.01 uF, ±5%, 50V							R2415	0611079A92	RES FIXED CHIP 5600 5 1/10	R2623	0611079A42	47 ±5%, 1/10W
C2203	2113741A45	0.01 uF, ±5%, 50V	C2508	2113741B69	0.1 uF, ±5%, 50 V	J2001	0984393T01	connector: receptacle, uhf, right angle	R2300 thru 2506			R2416,2417	0611079B15	RES FIXED CHIP 3300 5 1/10	R2625	0611079A42	47 ±5%, 1/10W
C2204	2380090M27	330 uF, ±20%, 16V	C2509	2113740A24	6.8 pF, ±0.25 pF, 50V	P2200, 2201	2880001R03	plug: 3-pin header				R2418 thru 2420	0611079A98	10K ±5%, 1/10W			
C2205	2113906B03	CERAMIC CHIP CL1 LSR 2.5/3.5 pF	C2510	2113740G11	2.2 pF, ±0.1 pF, 50V							R2421	0611079A74	1K ±5%, 1/10W	T2070,2071	2584600T01	transformer: BALLUN RF
C2206	2380090M36	100 uF, 25V	C2511	2113740A24	6.8 pF, ±0.25 pF, 50V							R2422	0611079A01	O ohms, ±5%, 1/10W			
C2207	2113742K30	CERAMIC CHIP 3.3 pF, ±0.1 pF	C2512	2113741A45	0.01 uF, ±5%, 50V	L2001	2462587X51	CHIP LO-PRO IND 68 NH 5%				R2423	0611079A92	RES FIXED CHIP 5600 5 1/10			
C2208	2113742K38	CERAMIC CHIP 4.7 pF, ±0.1 pF	C2513	2113740A39	27 pF, ±5%, 50 V	L2010	2462587X51	CHIP LO-PRO IND 68 NH 5%				R2424	0611079A70	1K ±5%, 1/10W			
C2209	2113742L04	CERAMIC CHIP 8.2 pF, ±0.25 pF	C2514,2515	2113741A45	0.01 uF, ±5%, 50V	L2012	2462587N71	CHIP IND 1800 NH 5%				R2425	0611079A50	100 S 1/10W			



