

U5000 VOLTAGE REFERENCE CHART

NOTE: Voltages may vary with input signal and control adjustments

TEST POINTS

LOCATION	25 KHZ	15 KHZ
TP103*	56	0.5
TP104*	20	20
TP105*	0.1	0.1
TP106*	152	155
TP200	4.8	4.6
TP201	0.15	0.14
TP202	117.2	118.5
TP203	156.1	159
TP204	17	15.2
TP205	32.2	26

ZENER DIODE- 25 KHZ

LOCATION	ANODE	CATHODE
Z500	0	12.2
Z601	0	11.5
Z700	0	5.1
Z701	0.15	4.8
Z702	0	13.9
Z705	0	9.1
Z802	0.7	14.2

15 KHZ

LOCATION	ANODE	CATHODE
Z500	0	11.8
Z601	0	11.4
Z700	0	5.2
Z701	0.14	4.7
Z702	0	13.3
Z705	0	9.1
Z802	0.6	13.5

Parts marked with "*" are measured with respect to AC GROUND. All others are measured with respect to chassis ground

FOR YOUR SAFETY, IT IS RECOMMENDED THAT AN ISOLATION TRANSFORMER BE USED WHEN SERVICING THIS PRODUCT

25 KHZ (MED RES MODE)

LOCATION	ANODE	CATHODE
D101*	77.3	157
D102*	77.3	157
D103*	0	77.3
D104*	0	77.6
D105*	20.5	20
D106A	-0.3	85
D106B	85	93.5
D106C	93.5	119.6
D107*	153	306
D108*	153	156
D109*	0.1	0.2
D110	0.16	-0.12
D111*	-0.3	0
D112*	0	20
D113*	0	20
D114*	8	20
D117*	-170	-0.3
D301	-0.8	17
D302	0.4	32.2
D303	-54.4	5.7
D310	-0.1	155.6
D501	1.2	0.5
D502	1.5	0.7
D503	1.5	0.8
D504	26	156
D505	117	156
D506	112	156
D507	8.4	8.2
D600	3.5	5.1
D601	0	3.5
D602	12.8	18.7
D603	32.2	32.5
D604	0.5	0
D700	0	-0.2
D702	12.7	15.2
D707	7.5	1300
D708	0	7.5
D709	17	16.2
D710	13.5	12.6
D711	-0.18	24.4
D712	13.9	13.5
D713	13	12.6
D716	117	165.5
D800	-0.4	0
D802	-24.7	21.5
D803	-0.4	0
D804	-0.6	-0.4
D805	18	17.5
D806	0	17.5
D807	-24.7	-0.4

15 KHZ (STANDARD RES)

LOCATION	ANODE	CATHODE
D101*	77.7	158
D102*	78	158
D103*	0	78.3
D104*		78
D105*	20.5	20
D106A	-0.3	89
D106B	89	99
D106C	99	120.5
D107*	155	305
D108*	155	158
D109*	0.1	0.18
D110	0.18	0
D111*	0	0
D112*	0	20.1
D113*	0	20
D114*	8	20
D117*	-166	-0.3
D301	-0.5	15.2
D302	0	26
D303	-59	6.4
D310	-0.1	159
D501	1.2	0.5
D502	1.4	0.7
D503	1.5	0.8
D504	130.7	159
D505	123	159
D506	102	159
D507	8.3	8.1
D600	0.24	5.2
D601	0	0.24
D602	11.5	17
D603	26	26.3
D604	0.6	0
D700	0	-0.2
D702	11.5	13.7
D707	16.6	1280
D708	0	16.6
D709	15.2	14.4
D710	13	12.4
D711	-0.1	24.3
D712	13.3	12.9
D713	12.4	12
D716	118.5	117.8
D800	-0.4	0
D802	-28	20
D803	-0.6	0
D804	-0.6	-0.4
D805	16.3	15.8
D806	0	15.8
D807	-28	-0.5

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TRANSISTOR VOLTAGE REFERENCES

25 KHZ (MED RESOLUTION MODE)

	EMITTER	BASE	COLLECT
Q101*	0.1	8	153.5
Q501	16.6	8.2	8.2
Q502	0	-0.14	10.1
Q503	11.6	12.2	127.8
Q504	11.7	12.2	119.6
Q505	11.7	12.2	103.6
Q506	1.2	1.9	11.6
Q507	1.4	2.1	11.7
Q508	1.5	2.2	11.7
Q509	0.9	0.2	0
Q510	0.9	0.2	0
Q511	0.9	0.2	0
Q601	9.7	10.3	17.1
Q602	7.2	7.9	13.7
Q700	0	-0.3	4.7
Q703	0	0.3	80.5
Q704	0	-0.2	1300
Q705	13.8	13.1	13.9
Q708	13.9	9.1	117.8
Q709	4.4	3.8	1
Q710	0	1	7.5
Q800	0	-0.4	-8.1
Q808	17	17.6	17.2

15 KHZ (MED RESOLUTION MODE)

	EMITTER	BASE	COLLECT
Q101*	0.1	8	154
Q501	14.8	6.5	8.1
Q502	0	-0.1	10.2
Q503	11.2	11.7	130.3
Q504	11.2	11.7	122.2
Q505	11.2	11.8	100
Q506	1.2	1.9	11.2
Q507	1.3	2	11.2
Q508	1.5	2.1	11.2
Q509	0.9	0.25	0
Q510	0.9	0.25	0
Q511	0.9	0.25	0
Q601	8.7	9.3	15.2
Q602	5	5.7	13.3
Q700	0	-0.3	4.7
Q703	0	0.3	90
Q704	0	-0.2	1280
Q705	13.3	13.3	7
Q708	13.6	9.1	118.8
Q709	5.7	5.2	1
Q710	0	1	16
Q800	0	-0.4	-8.3
Q808	15	15.8	15.3

INTERGRATED CIRCUIT (IC) VOLTAGES

25 KHZ MODE

PIN #	U101	U500	U601	U701	U702
1	3.4	12.2	14.4	4.8	0.2
2	2.5	5.5	25.2	9.1	4.4
3	0.2	5.5	3.6	8.6	14.4
4	1.8	2.3	6.6	0	0.2
5	0	2.3	0	4	4.8
6	5.62	2.2	9.2	3.38	4.4
7	18.4	0	9.8	6.9	0
8	4.9	2.2	4.5	6.85	0.2
9	-	2.23	24.9	5.85	4.7
10	-	2.14	1.5	13.5	4.9
11	-	2.27	-	6.4	14.5
12	-	4.13	-	0.6	0.2
13	-	12	-	0.1	4.9
14	-	10.3	-	0.1	4.8
15	-	0.85	-	0.1	-
16	-	2.5	-	8.7	-
17	-	1.2	-	0.8	-
18	-	1.3	-	5.5	-
19	-	0.8	-	5.7	-
20	-	2.4	-	11.5	-
21	-	1.3	-	-	-
22	-	1.2	-	-	-
23	-	12	-	-	-
24	-	0.85	-	-	-
25	-	2.4	-	-	-
26	-	1.3	-	-	-
27	-	1.1	-	-	-
28	-	12	-	-	-

15 KHZ MODE

PIN #	U101	U500	U601	U701	U702
1	3.4	12.2	14.4	4.8	0.2
2	2.5	5.5	25.2	9.1	4.4
3	0.2	5.5	3.6	8.6	14.4
4	1.8	2.3	6.6	0	0.2
5	0	2.3	0	4	4.8
6	5.62	2.2	9.2	3.38	4.4
7	18.4	0	9.8	6.9	0
8	4.9	2.2	4.5	6.85	0.2
9	-	2.23	24.9	5.85	4.7
10	-	2.14	1.5	13.5	4.9
11	-	2.27	-	6.4	14.5
12	-	4.13	-	0.6	0.2
13	-	12	-	0.1	4.9
14	-	10.3	-	0.1	4.8
15	-	0.85	-	0.1	-
16	-	2.5	-	8.7	-
17	-	1.2	-	0.8	-
18	-	1.3	-	5.5	-
19	-	0.8	-	5.7	-
20	-	2.4	-	11.5	-
21	-	1.3	-	-	-
22	-	1.2	-	-	-
23	-	12	-	-	-
24	-	0.85	-	-	-
25	-	2.4	-	-	-
26	-	1.3	-	-	-
27	-	1.1	-	-	-
28	-	12	-	-	-

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