



Test Report: RSP-750-48

750W Single Output Power Supply

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Control Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	V1 : 150 mVp-p (Max)	I/P : 230VAC O/P : FULL LOAD Ta : 25°C	V1 : 57.5 mVp-p (Max)	P
2	OUTPUT VOLTAGE ADJUST RANGE	CH1 : 43V ~ 55V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	40.764 V ~ 57.11 V/ 230 VAC 40.764 V ~ 57.11 V/ 115 VAC	P
3	OUTPUT VOLTAGE TOLERANCE	V1 : 1 % ~ -1 % (Max)	I/P : 100VAC / 264 VAC O/P : FULL / MIN LOAD Ta : 25°C	V1 : 0.03 % ~ -0.03 %	P
4	LINE REGULATION	V1 : 0.5 % ~ -0.5 % (Max)	I/P : 100VAC ~ 264 VAC O/P : FULL LOAD Ta : 25°C	V1 : 0.02 % ~ -0.02 %	P
5	LOAD REGULATION	V1 : 0.5 % ~ -0.5 % (Max)	I/P : 230 VAC O/P : FULL ~ MIN LOAD Ta : 25°C	V1 : 0.03 % ~ -0.03 %	P
6	SET UP TIME	230VAC : 1000 ms (Max) 115VAC : 1000 ms (Max)	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 159 ms 115VAC/ 350 ms	P
7	RISE TIME	230VAC : 50 ms (Max) 115VAC : 50 ms (Max)	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 35 ms 115VAC/ 35 ms	P
8	HOLD UP TIME	230VAC : 16 ms (TYP) 115VAC : 16 ms (TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 30 ms 115VAC/ 29 ms	P
9	OVER/UNDERSHOOT TEST	< ±5%	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	TEST : <5 %	P
10	DYNAMIC LOAD	V1 : 4800 mVp-p	I/P : 230 VAC (1).O/P : FULL /Min LOAD 90%DUTY/ 1KHZ (2).O/P : FULL /Min LOAD 90%DUTY/ 3KHZ (3).O/P : FULL /Min LOAD 90%DUTY/ 5KHZ (4).O/P : FULL /Min LOAD 50%DUTY/ 120HZ Ta : 25°C	(1)376 mVp-p (2)362 mVp-p (3)344 mVp-p (4)628 mVp-p	P

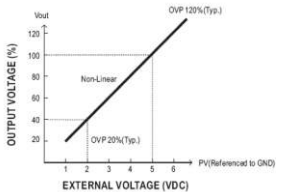
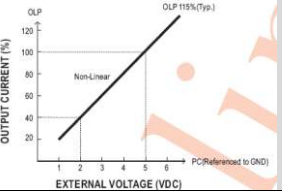
INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	90VAC~264 VAC	I/P : TESTING O/P : FULL LOAD Ta : 25°C	75 V~264V	P
			I/P : LOW-LINE-3V=87 V HIGH-LINE+15%=300 V O/P : FULL/MIN LOAD ON : 30 Sec . OFF : 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE)	TEST : OK	
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE OSC	I/P : 100VAC ~ 264 VAC O/P : FULL~MIN LOAD Ta : 25°C	TEST : OK	P
3	POWER FACTOR	0.97 / 230 VAC(TYP) 0.98 / 115 VAC(TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	PF= 0.9885 / 230 VAC PF= 0.9986 / 115 VAC	P
4	EFFICIENCY	92% (TYP)	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	92.63 %	P
5	INPUT CURRENT	230V/ 3.9 A (TYP) 115V/ 8.9 A (TYP)	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I= 3.605 A/ 230 VAC I= 7.422 A/ 115 VAC	P
6	INRUSH CURRENT	230V/ 40 A (TYP) 115V/ 25 A (TYP) COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I= 36 A/ 230 VAC I= 19 A/ 115 VAC	P
7	LEAKAGE CURRENT	< 2 mA / 240 VAC	I/P : 264 VAC O/P : Min LOAD Ta : 25°C	L-FG : 0.84 mA N-FG : 0.72 mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	105 ~ 125 %	I/P : 230 VAC I/P : 115 VAC O/P : TESTING Ta : 25°C	113.3%/ 230 VAC 112.6%/ 115 VAC Constant Current Limiting	P
2	OVER VOLTAGE PROTECTION	CH1 : 56.6V ~ 66.2V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	61.48 V/ 230 VAC 61.69V/ 115 VAC Shut down Re- power ON	P
3	OVER TEMPERATURE PROTECTION	SPEC : TSW1 : 80 ± 5°C O.T.P. TSW2 : 85 ± 5°C O.T.P. NO DAMAGE	I/P : 230 VAC O/P : FULL LOAD	O.T.P. Active Shut down o/p voltage , recovers automatically after temperature goes down	P
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P : 264 VAC O/P : FULL LOAD Ta : 25°C	NO DAMAGE CONSTANT CURRENT LIMITING	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT																		
1	REMOTE ON/OFF CONTROL	Power on : short between on/off (pin13) & 12V-AUX(pi n14) on CN50 Power off : open between on/off (pin13) & 12-AUX(pi n14) on CN50	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	TEST : OK	P																		
2	DC OK SIGNAL	The TTL signal out, PSU turn on = 0 ~ 1V PSU turn off = 3.3 ~ 5.6V	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	PSU turn on = 0 V PSU turn off = 5.02 V	P																		
3	OUTPUT VOLTAGE PROGRAMMABLE(PV)		I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	<table border="1"> <tr> <th>ADJ V</th><th>2V</th><th>3V</th><th>4V</th><th>5V</th><th>5.5V</th></tr> <tr> <td>SPEC</td><td>40%</td><td>60%</td><td>80%</td><td>100%</td><td>110%</td></tr> <tr> <td>TEST</td><td>40.2%</td><td>60.4%</td><td>80.4</td><td>100.4</td><td>110.2</td></tr> </table>	ADJ V	2V	3V	4V	5V	5.5V	SPEC	40%	60%	80%	100%	110%	TEST	40.2%	60.4%	80.4	100.4	110.2	P
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SPEC	40%	60%	80%	100%	110%																		
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4	OUTPUT CURRENT PROGRAMMABLE(PC)		I/P : 230 VAC O/P : 0%~110% LOAD Ta : 25°C	<table border="1"> <tr> <th>ADJ V</th><th>2V</th><th>3V</th><th>4V</th><th>5V</th><th>5.5V</th></tr> <tr> <td>SPEC</td><td>40%</td><td>60%</td><td>80%</td><td>100%</td><td>110%</td></tr> <tr> <td>TEST</td><td>35.2%</td><td>56.4%</td><td>76.4%</td><td>99.3%</td><td>108.6%</td></tr> </table>	ADJ V	2V	3V	4V	5V	5.5V	SPEC	40%	60%	80%	100%	110%	TEST	35.2%	56.4%	76.4%	99.3%	108.6%	P
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5	REMOTE SENSE	>0.5V	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	> 0.5	P																		
6	FAN SPEED	FAN Voltage : 0% LOAD 7~9V 100%LOAD 11.5~12.5V	I/P : 230 VAC O/P : 0%~100%LOAD Ta : 25°C	O/P : 0% LOAD FAN Voltage : 7.973V O/P : 100%LOAD FAN Voltage : 12.062V	P																		
7	AUXILIARY POWER	12V@ 0.1 A(±10%)	I/P : 230 VAC O/P : 0%~100%LOAD Ta : 25°C	O/P : 0% LOAD 12.605 V O/P : 100%LOAD 12.191 V	P																		

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	Power Transistor (D to S) or (C to E) Peak Voltage	Q905 Rated : STP7N95K3 7A/950V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25°C	(1) 812 V (2) 724 V (3) 788 V	P
2	Diode Peak Voltage	D101 Rated : YA868C15RSC 30A/150V Q201 Rated : V20200C 20A/200V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2)Output Short (3)Full load continue O/P : (1)Full Load Turn on (2)Output Short (3)Full load continue Ta : 25°C	(1) 99.6 V (2) 104 V (3) 97.6 V (1) 184 V (2) 180 V (3) 182 V	P
3	Input Capacitor Voltage	C5 Rated : 330u/400V 105°C 30*30 HU	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 382 V (2) 376 V (3) 396 V	P
4	Control IC Voltage Test	U901 Rated : UCC28220D 8V~14V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C	(1) 12.3 V (2) 12.1 V (3) 12 V	P
5	Power Transistor (D to S) or (C to E) Peak Voltage	Q 2 Rated : FCP22N60N 22A/600V	I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25°C	(1) 424 V (2) 402 V (3) 422 V	P

SAFETY & E.M.C. TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P : 3 KVAC/min I/P-FG : 2KVAC/min O/P-FG : 0.5 KVAC/min	I/P-O/P : 3.6 KVAC/min I/P-FG : 2.4 KVAC/min O/P-FG : 0.6 KVAC/min Ta : 25°C	I/P-O/P : 9.17 mA I/P-FG : 8.82 mA O/P-FG : 6.79 mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P : 500VDC>100MΩ I/P-FG : 500VDC>100MΩ O/P-FG : 500VDC>100MΩ	I/P-O/P : 500 VDC I/P-FG : 500 VDC O/P-FG : 500 VDC Ta : 25°C /70%RH	I/P-O/P : 22.1 GΩ I/P-FG : 8.72 GΩ O/P-FG : 20.6 GΩ NO DAMAGE	P
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40 A / 2min Ta : 25°C / 70%RH	10 mΩ	P

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN61000-3-2 CLASS A CLASS D	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	PASS	P
2	CONDUCTION	EN55022 CLASS B	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab	P
3	RADIATION	EN55022 CLASS B	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab	P
4	E.S.D	EN61000-4-2 INDUSTRY AIR : 8KV / Contact : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
5	E.F.T	EN61000-4-4 INDUSTRY INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 INDUSTRY L-N : 2KV L,N-PE : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A	P
7	Test by certified Lab & Test Report Prepare				

■ RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT																																																																																																																																							
1	TEMPERATURE RISE TEST	MODEL : RSP-750-24 1. ROOM AMBIENT BURN-IN : 1.5 HRS I/P : 230VAC O/P : FULL LOAD Ta=33.6 °C 2. HIGH AMBIENT BURN-IN : 6 HRS I/P : 230VAC O/P : FULL LOAD Ta=48.2 °C <table><tr><th>NO</th><th>Position</th><th>PART NUMBER</th><th>ROOM AMBIENT Ta=33.6 °C</th><th>HIGH AMBIENT Ta=48.2 °C</th></tr><tr><td>1</td><td>LF1</td><td>TR690-R1</td><td>42.1°C</td><td>58.2°C</td></tr><tr><td>2</td><td>C2</td><td>105/275VAC 20% P=22.5 R46</td><td>41.7°C</td><td>57.5°C</td></tr><tr><td>3</td><td>BD1</td><td>30A/800V SILICON US30KB80R</td><td>54.0°C</td><td>69.4°C</td></tr><tr><td>4</td><td>L2</td><td>TF2432</td><td>48.4°C</td><td>64.1°C</td></tr><tr><td>5</td><td>Q2</td><td>FCP22N60N 22A/600V TO220</td><td>48.0°C</td><td>64.3°C</td></tr><tr><td>6</td><td>C11</td><td>225/450V 10% P=22 MMX</td><td>40.0°C</td><td>56.9°C</td></tr><tr><td>7</td><td>C5</td><td>330u/400V 105°C 30*30 HU</td><td>37.2°C</td><td>52.8°C</td></tr><tr><td>8</td><td>T1</td><td>TF2419</td><td>44.6°C</td><td>58.9°C</td></tr><tr><td>9</td><td>T2</td><td>TF2420</td><td>51.9°C</td><td>67.0°C</td></tr><tr><td>10</td><td>Q901</td><td>STP7N95K3 7A/950V</td><td>47.4°C</td><td>62.2°C</td></tr><tr><td>11</td><td>Q906</td><td>STP7N95K3 7A/950V</td><td>54.7°C</td><td>68.6°C</td></tr><tr><td>12</td><td>U901</td><td>PWM UCC28220D</td><td>42.4°C</td><td>57.4°C</td></tr><tr><td>13</td><td>Q100</td><td>V30100S 30A/100V</td><td>49.6°C</td><td>63.1°C</td></tr><tr><td>14</td><td>Q200</td><td>V30100S 30A/100V</td><td>57.7°C</td><td>71.5°C</td></tr><tr><td>15</td><td>D101</td><td>M6060C 60A/60V TO220</td><td>58.2°C</td><td>72.3°C</td></tr><tr><td>16</td><td>D900</td><td>BYV26EGP 1A/1KV DO-204AC</td><td>44.1°C</td><td>58.3°C</td></tr><tr><td>17</td><td>D70</td><td>ST02D-170 AX078 T-52mm</td><td>46.3°C</td><td>61.5°C</td></tr><tr><td>18</td><td>C75</td><td>220u/25V UL7Kh 8*11.5 KY</td><td>41.5°C</td><td>56.8°C</td></tr><tr><td>19</td><td>T3</td><td>TF2431</td><td>43.1°C</td><td>58.0°C</td></tr><tr><td>20</td><td>C320</td><td>100u/25V L5Kh 6.3*11 KY</td><td>43.3°C</td><td>58.2°C</td></tr><tr><td>21</td><td>C301</td><td>1500u/16V UL10Kh 10*20 ZLH</td><td>42.1°C</td><td>57.0°C</td></tr><tr><td>22</td><td>C161</td><td>470u/25V UL7Kh 8*20 KY</td><td>42.1°C</td><td>56.8°C</td></tr><tr><td>23</td><td>L100</td><td>TF2428</td><td>51.2°C</td><td>66.0°C</td></tr><tr><td>24</td><td>C110</td><td>1000u/35V UL10Kh 12.5*25 KY</td><td>47.1°C</td><td>61.7°C</td></tr><tr><td>25</td><td>TSW1</td><td>BW-DCP-R0 80°C 105mm HH (H110)</td><td>41.4°C</td><td>57.2°C</td></tr><tr><td>26</td><td>TSW2</td><td>BW-DCP-R0 85°C 60mm HH (H110)</td><td>53.3°C</td><td>67.4°C</td></tr></table>			NO	Position	PART NUMBER	ROOM AMBIENT Ta=33.6 °C	HIGH AMBIENT Ta=48.2 °C	1	LF1	TR690-R1	42.1°C	58.2°C	2	C2	105/275VAC 20% P=22.5 R46	41.7°C	57.5°C	3	BD1	30A/800V SILICON US30KB80R	54.0°C	69.4°C	4	L2	TF2432	48.4°C	64.1°C	5	Q2	FCP22N60N 22A/600V TO220	48.0°C	64.3°C	6	C11	225/450V 10% P=22 MMX	40.0°C	56.9°C	7	C5	330u/400V 105°C 30*30 HU	37.2°C	52.8°C	8	T1	TF2419	44.6°C	58.9°C	9	T2	TF2420	51.9°C	67.0°C	10	Q901	STP7N95K3 7A/950V	47.4°C	62.2°C	11	Q906	STP7N95K3 7A/950V	54.7°C	68.6°C	12	U901	PWM UCC28220D	42.4°C	57.4°C	13	Q100	V30100S 30A/100V	49.6°C	63.1°C	14	Q200	V30100S 30A/100V	57.7°C	71.5°C	15	D101	M6060C 60A/60V TO220	58.2°C	72.3°C	16	D900	BYV26EGP 1A/1KV DO-204AC	44.1°C	58.3°C	17	D70	ST02D-170 AX078 T-52mm	46.3°C	61.5°C	18	C75	220u/25V UL7Kh 8*11.5 KY	41.5°C	56.8°C	19	T3	TF2431	43.1°C	58.0°C	20	C320	100u/25V L5Kh 6.3*11 KY	43.3°C	58.2°C	21	C301	1500u/16V UL10Kh 10*20 ZLH	42.1°C	57.0°C	22	C161	470u/25V UL7Kh 8*20 KY	42.1°C	56.8°C	23	L100	TF2428	51.2°C	66.0°C	24	C110	1000u/35V UL10Kh 12.5*25 KY	47.1°C	61.7°C	25	TSW1	BW-DCP-R0 80°C 105mm HH (H110)	41.4°C	57.2°C	26	TSW2	BW-DCP-R0 85°C 60mm HH (H110)	53.3°C	67.4°C	P
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 119 % LOAD Ta : 25°C	TEST : OK	P																																																																																																																																							
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 264VAC/100VAC O/P : 100 % LOAD Ta= -35 °C	TEST : OK	P																																																																																																																																							
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 50 °C HUMIDITY= 95 %R.H	TEST : OK	P																																																																																																																																							

5	TEMPERATURE COEFFICIENT	$\pm 0.03 \%/^{\circ}\text{C}$ (0~50 $^{\circ}\text{C}$)	I/P : 230 VAC O/P : FULL LOAD	$\pm 0 \%/^{\circ}\text{C}$ (0~50 $^{\circ}\text{C}$)	P
6	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature : -45 $^{\circ}\text{C}$ ~ +90 $^{\circ}\text{C}$ 2. Temperature change rate : 25 $^{\circ}\text{C}$ / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 5 CYCLE 5. Input/Output condition : STATIC	OK		P
7	THERMAL SHOCK TEST	1. Thermal shock Temperature : -35 $^{\circ}\text{C}$ ~ +55 $^{\circ}\text{C}$ 2. Temperature change rate : 25 $^{\circ}\text{C}$ / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 10 CYCLE 5. Input/Output condition : 230VAC/Full Load AC ON/OFF TEST turn on 58sec ; turn off 2sec	OK		P
8	VIBRATION TEST	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 2G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25 $^{\circ}\text{C}$	TEST : OK		P
9	CAPACITOR LIFE CYCLE	RSP-750-24:SUPPOSE C110 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 25 $^{\circ}\text{C}$ LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta= 50 $^{\circ}\text{C}$ LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta= 50 $^{\circ}\text{C}$ LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta= 50 $^{\circ}\text{C}$ LIFE TIME	(1) 1205160HRS (2) 213000HRS (3) 277200HRS (4) 320640HRS		P
10	MTBF	Conducted by Parts Stress Analysis Prediction 336.9K hrs min. Telcordia SR-332 (Bellcore) ; 109.1K hrs min. MIL-HDBK-217F (25 $^{\circ}\text{C}$)			P
11	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure : Above 50,000 hours @ TA 50 $^{\circ}\text{C}$			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2012/5/16	RD SAMPLE	PASS	SANFORD SU	VINCENT TSENG
2012/7/11	PRODUCT SAMPLE	PASS	SANFORD SU	VINCENT TSENG
2012/8/7	PRODUCT SAMPLE W1207C22	PASS	SANFORD SU	VINCENT TSENG

2009/08/04 A50-F023