

DECLARATION OF CONFORMITY

FOR THE CE-APPROVAL OF

Description of product:

POWER SUPPLY

Model no.:

GT-500148-12

The described product is in conformity with the provisions of the following European directive:

89/336/EEC Council Directive on the approximation of the law of the Member States relating to electromagnetic compatibility. Amended by 91/26/EEC, 92/31/EEC and 93/68/EEC

Assurance of conformance of the described product with the provisions of the stated EC-Directive is given through the conformity of the following standards:

Electromagnetic Compatibility	Standard	Test Level	Criteria
EN 50081-1 (emission): January 1992	EN 55022 radiated	Class B	Class B
	EN 55022 conducted	Class B	Class B
EN 50082-1 (immunity): August 1997 EN 55024 (immunity): September 1998	EN 61000-4-2	Contact Level 2 (4KV)	NOT TESTED
	EN 61000-4-2	Air Level 3 (8KV)	A
	EN 61000-4-3	Level 2 (3V/m)	A
	EN 61000-4-4	Level 3 (2KV)	A
	EN 61000-4-5	L-L Level 3 (1KV)	A
	EN 61000-4-5	L-G Level 3 (2KV)	A
	EN 61000-4-6	Level 2 (3V)	A
	EN 61000-4-8	Level 2 (3A/m)	A
	EN 61000-4-11	30% reduction, 10ms	A
	EN 61000-4-11	30% reduction, 500ms	B
	EN 61000-4-11	60% reduction, 100ms	B
	EN 61000-4-11	100% reduction, 10ms	A
	EN 61000-4-11	100% reduction, 5000ms	B
	ENV 50204	Level 2 (3V/m)	A

J.M. Lin

Date

6.6.2002

J.M. Lin

Vice President, engineering

DEL NO. : GT-500148-12

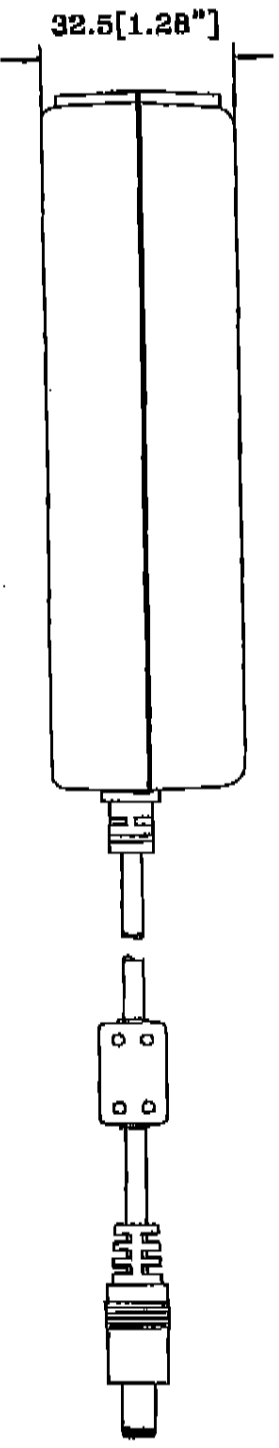
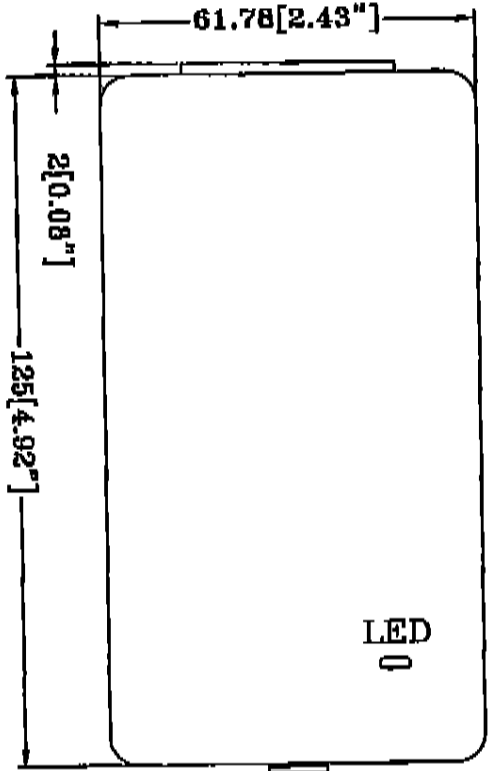
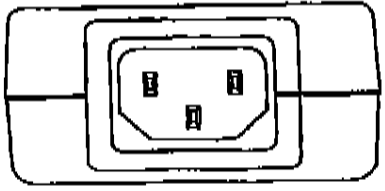
IN/OUTPUT RATING & PIN ASSIGNMENT

SIZE : 84	SM-4000-32/REV.0-120197
UNIT : mm[inches]	FILENAME: PTC0764
ISSUE NO. : 4	DATE : 06. 06. 2002
DRAWN: 洪麗珍 L. J. Hsu	CHECKED: 蔣世豪 5/6

OUTPUTS :

IGNMENT	A.C. VOLTAGE	CURRENT	PIN NBR
L	100-240 V~	0.9-0.45A	L
N			N
GND		50/60Hz	G

ASSIGNMENT	D.C. VOLTAGE	CURRENT	PIN NBR
VO1:	12V	4A	INNER
DC COM:			OUTER
MAXIMUM OUTPUT POWER: 48W			



EN 61000-4-2 靜電測試報告單

ELECTROSTATIC DISCHARGE IMMUNITY TEST REPORT

標 種 MODEL NO.	GT-500148-12	客 戶 CUSTOMER	
序 號 SERIAL NO.		週 期 WEEK	
P/C 號 碼 P/C NO.		日 期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 V 60 Hz; OUTPUT: 100 % LOAD
Ambient temp: 25 °C; Relative humidity: 50 %

TEST EQUIPMENT:

KeyTek MZ-15/EC S/N: 9308399

(V) 空氣放電- 測試點: 外殼
AIR DISCHARGE PORT ENCLOSURE

TESTED TO	()	()	(V)	()	()
LEVEL	1	2	3	4	X
VOLTAGE	2 kV	4 kV	8 kV	15 kV	() kV

() 接觸放電- 測試點: 金屬外殼
CONTACT DISCHARGE PORT METAL ENCLOSURE

TESTED TO	()	()	()	()	()
LEVEL	1	2	3	4	X
VOLTAGE	2 kV	4 kV	6 kV	8 kV	() kV

測試結果

PERFORMANCE CRITERIA: (V) A. 正常
NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 () B. 暫時失效但自動恢復
TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE DURING THE TEST, SELF-RECOVERABLE.
 () C. 暫時失效, 須重新開機
LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF OPERATOR REQUIRED TO RESET.

備 註
REMARK:

部門主管 DEPT. MANAGER	<i>d m lin</i>	校 驗 APPROVED BY	測 試 TESTED BY <i>W.L.Chang 6/6/02</i>
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EN 61000-4-3 高頻干擾測試報告單

RADIATED, RF ELECTROMAGNETIC FIELD IMMUNITY TEST REPORT

機種 MODEL NO.	GT-500148-12	客戶 CUSTOMER	
序號 SERIAL NO.		週期 WEEK	
P/C 號碼 P/C NO.		日期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 V 60 Hz; OUTPUT: 100 % LOAD
Ambient temp: 25 °C; Relative humidity: 50 %

測試點: 外觀
PORT ENCLOSURE

TEST EQUIPMENT:

EMCO GTEM cell: MODEL 5305 S/N: 9603

Frequency band: 80 MHz to 1000 MHz

Amplitude modulation: 1 KHz sinewave, 80% depth

Sweep rate: Log step 1% ..

Delay: 2 seconds

TEST LEVEL:	TESTED TO	()	(V)	()	()
	LEVEL	1	2	3	X
	Field Strength	1 V/m	3 V/m	10 V/m	() V/m

測試結果

PERFORMANCE CRITERIA:

(V) A. 正常
NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.

() B. 暫時失效但自動恢復
TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE DURING THE TEST, SELF-RECOVERABLE.

() C. 暫時失效, 須重新開機
LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF OPERATOR REQUIRED TO RESET.

備註
REMARK:

部門主管 DEPT. MANAGER	<i>D. M. Lin</i>	校驗 APPROVED BY
		測試 TESTED BY <i>W.L. Chang</i> 6/6/02

ENV 50204 數位無線電話幅射干擾測試報告單

RADIATED ELECTROMAGNETIC FIELD FROM DIGITAL RADIO TELEPHONES IMMUNITY TEST REPORT

機種 MODEL NO.	GT-500148-12	客戶 CUSTOMER	
序號 SERIAL NO.		週期 WEEK	
P/C 號碼 P/C NO.		日期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 V 60 Hz; OUTPUT: 100 % LOAD
 Ambient temp: 25 °C; Relative humidity: 50 %

測試點: 外殼
 PORT ENCLOSURE

TEST EQUIPMENT:

EMCO GTEM cell: MODEL 5305 S/N: 9603
 Carrier frequency: 900 MHz
 Keyed at: 200 Hz, 50% duty cycle (2.5 ms on and 2.5 ms off)
 Duration of test: 60 seconds minimum

TEST LEVEL: TESTED TO () (V) () () ()
 LEVEL 1 2 3 4 X
 Field Strength 1 V/m 3 V/m 10 V/m 30 V/m () V/m

測試結果

PERFORMANCE CRITERIA: (V) A. 正常
 NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 () B. 暫時失效但自動恢復
 TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE DURING THE TEST, SELF-RECOVERABLE.
 () C. 暫時失效, 須重新開機
 LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF OPERATOR REQUIRED TO RESET.

備註
 REMARK:

部門主管 DEPT. MANAGER	<i>J. M. Lin</i> APPROVED BY	測試 TESTED BY <i>W.L.Chang 6/6/02</i>
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EN 61000-4-4 快速脈衝/爆發測試報告單
ELECTRICAL FAST TRANSIENT / BURST IMMUNITY TEST REPORT
Coupling / Decoupling Network (Direct Injection)

機 種 MODEL NO.	GT-500148-12	客 戶 CUSTOMER	
序 號 SERIAL NO.		週 期 WEEK	
P/C 號 碼 P/C NO.		日 期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 v 60 Hz; OUTPUT: 100 % LOAD
 Ambient temp: 25 °C; Relative humidity: 50 %

測試點: (V) ()
 PORT AC POWER INPUT DC POWER INPUT

TEST EQUIPMENT:

KeyTek Instrument Co. ECAT

Software: E400 Burstware

Modules:

Row 1 Right: E501 SN: 215

Row 1 Left: E411, SN: 572

Row 2 Right: E4551 SN: 569

Coupling: Standard (PE+, L2+, L1+)

Polarity: Alternate 1 each

Period: Fixed 300 ms

Duration: Fixed 15 ms

Tests: 6

Time Between Tests: 15 Seconds

Duration Of Tests: 60 Seconds

TEST LEVEL:	TESTED TO	()	()	(V)	()	()
	LEVEL	1	2	3	4	X
	VOLTAGE	0.5 kV	1 kV	2 kV	4 kV	() kV
	FREQUENCY	5KHz	5KHz	5KHz	2.5KHz	() KHz

測試結果

PERFORMANCE CRITERIA: (V) A. 正常
 NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 () B. 暫時失效但自動恢復
 TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE DURING THE TEST, SELF-RECOVERABLE.
 () C. 暫時失效, 須重新開機
 LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF OPERATOR REQUIRED TO RESET.

備 註
 REMARK:

部 門 主 管
 DEPT. MANAGER

D. M. Lin

校 驗
 APPROVED BY

測 試
 TESTED BY

W.L. Chang 6/6/02

EN 61000-4-5 雷擊測試報告單
SURGE IMMUNITY TEST REPORT
Line to Line

機 種 MODEL NO.	GT-500148-12	客 戶 CUSTOMER	
序 號 SERIAL NO.		週 期 WEEK	
P/C 號 碼 P/C NO.		日 期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 V 60 Hz; OUTPUT: 100 % LOAD
 Ambient temp: 25 °C; Relative humidity: 50 %

測試點: (V) ()
 PORT AC POWER INPUT DC POWER INPUT

TEST EQUIPMENT:

KeyTek Instrument Co. ECAT
 Software: E500 Surgeware
 Modules:
 Row 1 Right: E501 SN: 215
 Row 1 Left: E411 SN: 572
 Row 2 Right: E4551 SN: 569
 " Waveform: Fixed E501: 1.2/50, 8/20 Comb 2 Ohm "
 " Coupling: Step: L1+, L2- "
 Number of tests: 40.
 Polarity: Alternate 5 each
 Phase: Linear 0 to 270 dg stepping 90 dg
 Phase: REF: L1

COUPLING MODE: LINE TO LINE

TESTED TO	()	()	(V)	()	()
LEVEL	1	2	3	4	X
VOLTAGE	---	0.5 kV	1 kV	2 kV	() kV
TIME BETWEEN TESTS	---	20sec	20sec	60sec	60sec

測試結果

PERFORMANCE (V) A. 正常
 CRITERIA: () B. 暫時失效但自動恢復
 () C. 暫時失效, 須重新開機

NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE DURING THE TEST, SELF-RECOVERABLE.
 LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF OPERATOR REQUIRED TO RESET.

備 註
 REMARK:

部 門 主 管
 DEPT. MANAGER

J. M. Lin

校 驗
 APPROVED BY

測 試
 TESTED BY

W.L. Chang 6/6/02

EN 61000-4-5 雷擊測試報告單
SURGE IMMUNITY TEST REPORT
Line to Ground

機種 MODEL NO.	GT-500148-12	客戶 CUSTOMER	
序號 SERIAL NO.		週期 WEEK	
P/C 號碼 P/C NO.		日期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 v 60 Hz; OUTPUT: 100 % LOAD
 Ambient temp: 25 °C; Relative humidity: 50 %

測試點: (V) ()
 PORT AC POWER INPUT DC POWER INPUT

TEST EQUIPMENT:

KeyTek Instrument Co. ECAT

Software: E500 Surgeware

Modules:

Row 1 Right: E501 SN: 215

Row 1 Left: E411 SN: 572

Row 2 Right: E4551 SN: 569

"Waveform: Fixed E501: 1.2/50, 8/20 Comb 12 Ohm"

Coupling: List

"Coupling: Step: L1+, PE-"

"Coupling: Step: L2+, PE-"

"Coupling: Step: L1+, L2+, PE-"

Number of tests: 120

Polarity: Alternate 5 each

Phase: Linear 0 to 270 dg stepping 90 dg

Phase: REF: L1

COUPLING MODE: LINE TO GROUND

TESTED TO LEVEL	(1)	(2)	(V)	(3)	(4)	(X)
VOLTAGE	0.5 kV	1 kV	2 kV	4 kV	() kV	
TIME BETWEEN TESTS	20sec	20sec	20sec	60sec	60sec	

測試結果

PERFORMANCE (V) A. 正常
 CRITERIA: () B. 暫時失效但自動恢復
 () C. 暫時失效, 須重新開機

NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE DURING THE TEST, SELF-RECOVERABLE.
 LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF OPERATOR REQUIRED TO RESET.

備註

REMARK:

部門主管
DEPT. MANAGER

D. M. Lin

校驗
APPROVED BY

測試
TESTED BY

W.L.Chang 6/6/02

EN 61000-4-6 高頻干擾測試報告單
IMMUNITY TO CONDUCTED DISTURBANCES, INDUCED BY
RADIO - FREQUENCY FIELDS TEST REPORT

機種 MODEL NO.	GT-500148-12	客戶 CUSTOMER	
序號 SERIAL NO.		週期 WEEK	
P/C 號碼 P/C NO.		日期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 v 60 Hz; OUTPUT: 100 % LOAD
 Ambient temp: 25 °C; Relative humidity: 50 %

測試點: (V) () () (V)
 PORT AC POWER INPUT DC POWER INPUT CDN - M2 CDN - M3

TEST EQUIPMENT:

KeyTek RF Immunity Test Systems : G-320

Signal Generator : HP 8648A S/N : 3625U00596
 Power Amplifier : G-ASLC25CS S/N : 9806430
 6dB Attenuator : usda 766-6 S/N : 9712
 M2 C/D : KeyTek 08-550-130-00 S/N : 9836
 M3 C/D : KeyTek 08-550-130-00 S/N : 9815

Frequency band : 0.15 MHz to 80 MHz

Amplitude modulation : 1 KHz sinewave , 80% depth

Sweep rate : Log sweep 1%

Dwell time : 2 seconds

TEST LEVEL: TESTED TO () (V) () ()
 LEVEL 1 2 3 X
 VOLTAGE LEVEL 1 V 3 V 10 V () V

測試結果

PERFORMANCE : (V) A. 正常
 CRITERIA: NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 () B. 暫時失效但自動恢復
 TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE
 DURING THE TEST, SELF-RECOVERABLE.
 () C. 暫時失效, 須重新開機
 LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF
 OPERATOR REQUIRED TO RESET.

備註
REMARK:

部門主管 DEPT. MANAGER	<i>D. M. Lin</i>	校驗 APPROVED BY	測試 TESTED BY	<i>W.L. Chang</i> 6/6/02
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EN 61000-4-8 電源頻率磁場干擾測試報告單
POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST REPORT

機 種 MODEL NO.	GT-500148-12	客 戶 CUSTOMER	
序 號 SERIAL NO.		週 期 WEEK	
P/C 號 碼 P/C NO.		日 期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 220 V 60 Hz; OUTPUT: 100 % LOAD
 Ambient temp: 25 °C; Relative humidity: 50 %

測試點: 外殼
 PORT ENCLOSURE

TEST EQUIPMENT:

Test Generator: Fischer Custom Communications Inc.
 MODEL F-1000-4-8-G-125A S/N: 9869

Immunity Loop: Fischer Custom Communications Inc.
 MODEL F-1000-4-8/9/10-L-1M S/N: 9868

Duration of test: 60 seconds minimum

TEST LEVEL: TESTED TO () (V) () () () ()
 LEVEL 1 2 3 4 5 X
 Field Strength 1 A/m 3 A/m 10 A/m 30 A/m 100 A/m () A/m

測試結果

PERFORMANCE (V) A. 正常
 CRITERIA: NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 () B. 暫時失效但自動恢復
 TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE
 DURING THE TEST, SELF-RECOVERABLE.
 () C. 暫時失效, 須重新開機
 LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF
 OPERATOR REQUIRED TO RESET.

備 註
 REMARK:

部 門 主 管 DEPT. MANAGER	<i>J. M. Lin</i>	校 驗 APPROVED BY	測 試 TESTED BY	<i>W.L. Chang 6/6/02</i>
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EN 61000-4-11 電壓下降,中斷,電壓變化測試報告單
 VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS
 TEST REPORT

機 種 MODEL NO.	GT-500148-12	客 戶 CUSTOMER	
序 號 SERIAL NO.		週 期 WEEK	
P/C 號 碼 P/C NO.		日 期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 100 V 60 Hz; OUTPUT: 100 % LOAD
 Ambient temp: 25 °C; Relative humidity: 50 %

測試點: 交流電源輸入端

PORT AC POWER INPUT

TEST EQUIPMENT:

CHROMA AC SOURCE MODEL 6530 S/N: 65300184

STORAGE SCOPE

Voltage Dips Test:

- () 30% reduction (AC Input = 70V for 10ms)
 (V) 30% reduction (AC Input = 70V for 500ms)
 (V) 60% reduction (AC Input = 40V for 100ms)
 () 60% reduction (AC Input = 40V for 1000ms)
 () 100% reduction (AC Input = 0V for 10ms)

Voltage Interruptions Test:

- (V) 100% reduction (AC Input = 0V for 5000ms)

Voltage Variations Test:

- () AC voltage decreases from 100V to 40V in 2s, stays at 40V for 1s, increases from 40V to 100V in 2s, stays at 100V for 2s, decreases from 100V to 0V in 2s, stays at 0V for 1s, then increases to 100V in 2s

測試結果

PERFORMANCE
CRITERIA:

- () A. 正常
 NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 (V) B. 暫時失效但自動恢復
 TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE
 DURING THE TEST, SELF-RECOVERABLE.
 () C. 暫時失效,須重新開機
 LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF
 OPERATOR REQUIRED TO RESET.

備 註
REMARK:部 門 主 管
DEPT. MANAGER*d. m. Lin*校 驗
APPROVED BY測 試
TESTED BY*W.L.Chang 6/6/02*

EN 61000-4-11 電壓下降,中斷,電壓變化測試報告單
VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS
TEST REPORT

機種 MODEL NO.	GT-500148-12	客戶 CUSTOMER	
序號 SERIAL NO.		週期 WEEK	
P/C號碼 P/C NO.		日期 DATE	06.06.2002

測試規格

TEST CONDITION: INPUT: 100 v 60 Hz; OUTPUT: 100 % LOAD
Ambient temp: 25 °C; Relative humidity: 50 %

測試點: 交流電源輸入端

PORT AC POWER INPUT

TEST EQUIPMENT:

CHROMA AC SOURCE MODEL 6530 S/N: 65300184

STORAGE SCOPE

Voltage Dips Test:

- () 30% reduction (AC Input = 70V for 10ms)
 () 30% reduction (AC Input = 70V for 500ms)
 () 60% reduction (AC Input = 40V for 100ms)
 () 60% reduction (AC Input = 40V for 1000ms)
 () 100% reduction (AC Input = 0V for 10ms)

Voltage Interruptions Test:

- () 100% reduction (AC Input = 0V for 5000ms)

Voltage Variations Test:

- () AC voltage decreases from 100V to 40V in 2s, stays at 40V for 1s, increases from 40V to 100V in 2s, stays at 100V for 2s, decreases from 100V to 0V in 2s, stays at 0V for 1s, then increases to 100V in 2s

測試結果

PERFORMANCE
CRITERIA:

- () A. 正常
NORMAL PERFORMANCE WITHIN THE SPECIFICATIONS.
 () B. 暫時失效但自動恢復
TEMPORARY DEGRADATION OR LOSS OF PERFORMANCE
DURING THE TEST, SELF-RECOVERABLE.
 () C. 暫時失效,須重新開機
LOSS OF PERFORMANCE AFTER THE TEST, INTERVENTION OF
OPERATOR REQUIRED TO RESET.

備註

REMARK:

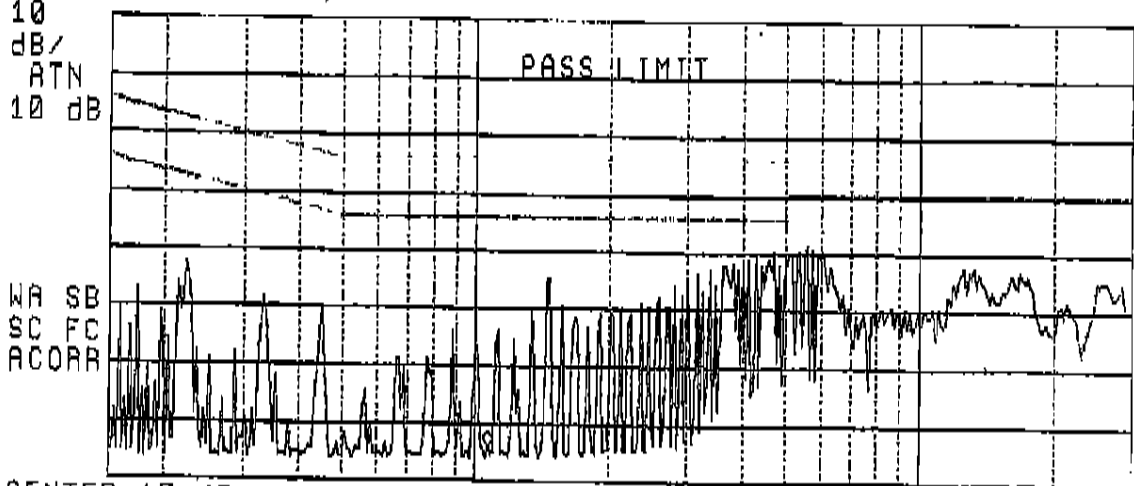
部門主管
DEPT. MANAGER*J. M. Lin*校驗
APPROVED BY測試
TESTED BY*W.L. Chang**6/6/02*

16:42:13 JUN 06, 2002
GT-500148-12 FULL LOAD 115VAC L1

ACTU DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.07 MHz
5.00 dBμV

PREFIX= EN022B

LOG REF 00.0 dBμV



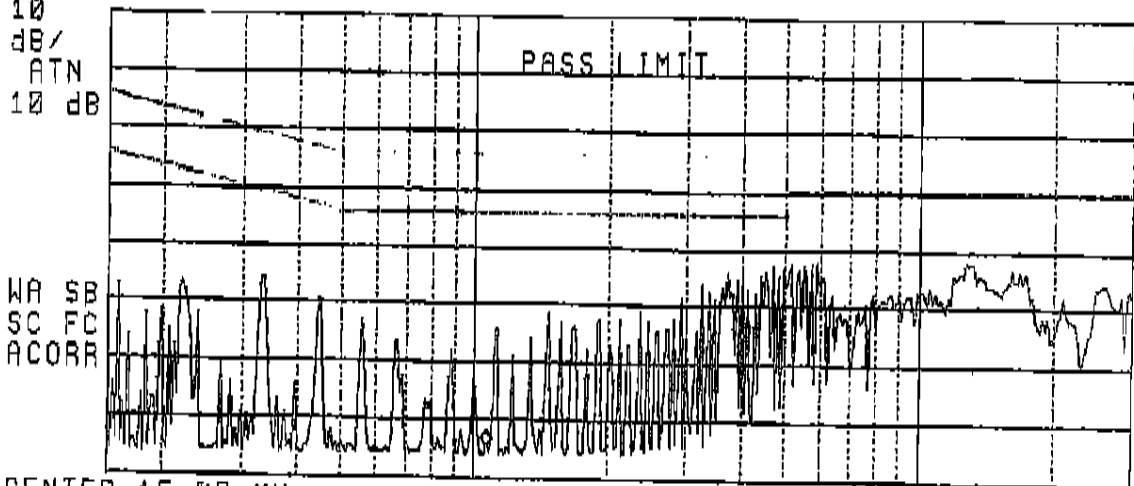
CENTER 15.00 MHz SPAN 29.85 MHz
#IF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

16:42:43 JUN 06, 2002
GT-500148-12 FULL LOAD 115VAC L2

ACTU DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.07 MHz
5.25 dBμV

PREFIX= EN022B

LOG REF 00.0 dBμV



CENTER 15.00 MHz SPAN 29.85 MHz
#IF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

D. M. Lin

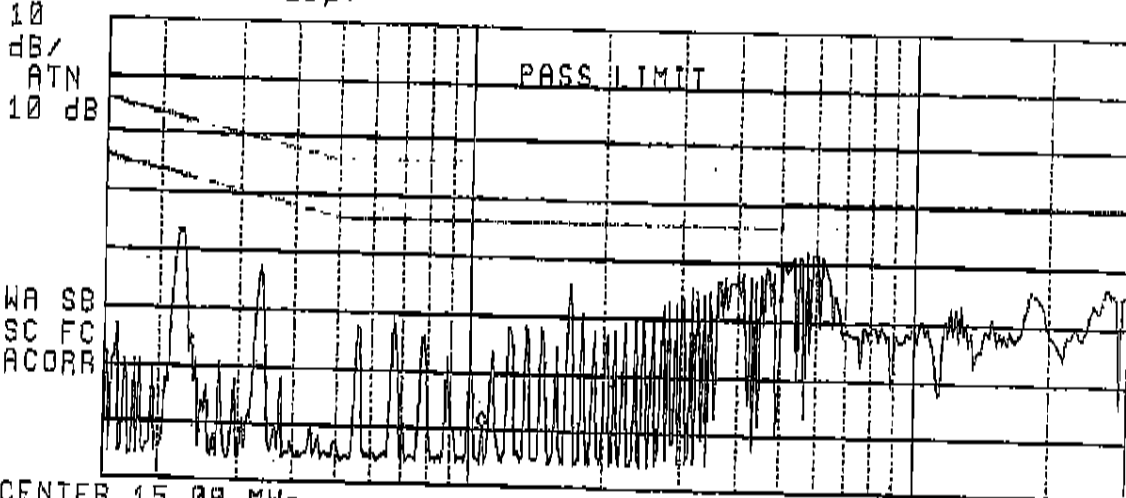
W. L. Chang 6/6/02

hp 16:43:24 JUN 06, 2002
GT-500148-12 FULL LOAD 230VAC L1

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.07 MHz
10.39 dBμV

PREFIX= EN022B

LOG REF 00.0 dBμV



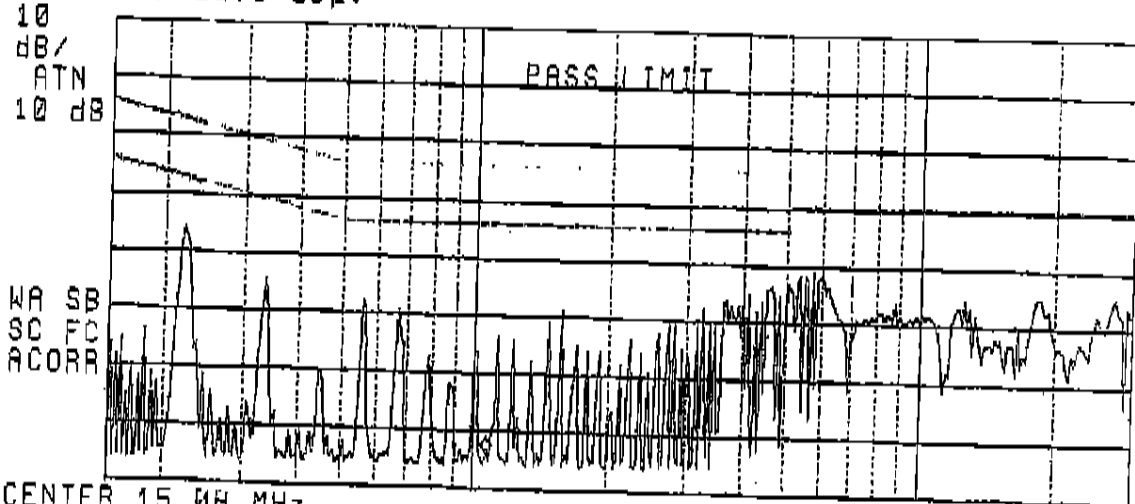
CENTER 15.00 MHz SPAN 29.85 MHz
#IF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

hp 16:43:54 JUN 06, 2002
GT-500148-12 FULL LOAD 230VAC L2

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 1.07 MHz
8.12 dBμV

PREFIX= EN022B

LOG REF 00.0 dBμV



CENTER 15.00 MHz SPAN 29.85 MHz
#IF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

D. M. Lin

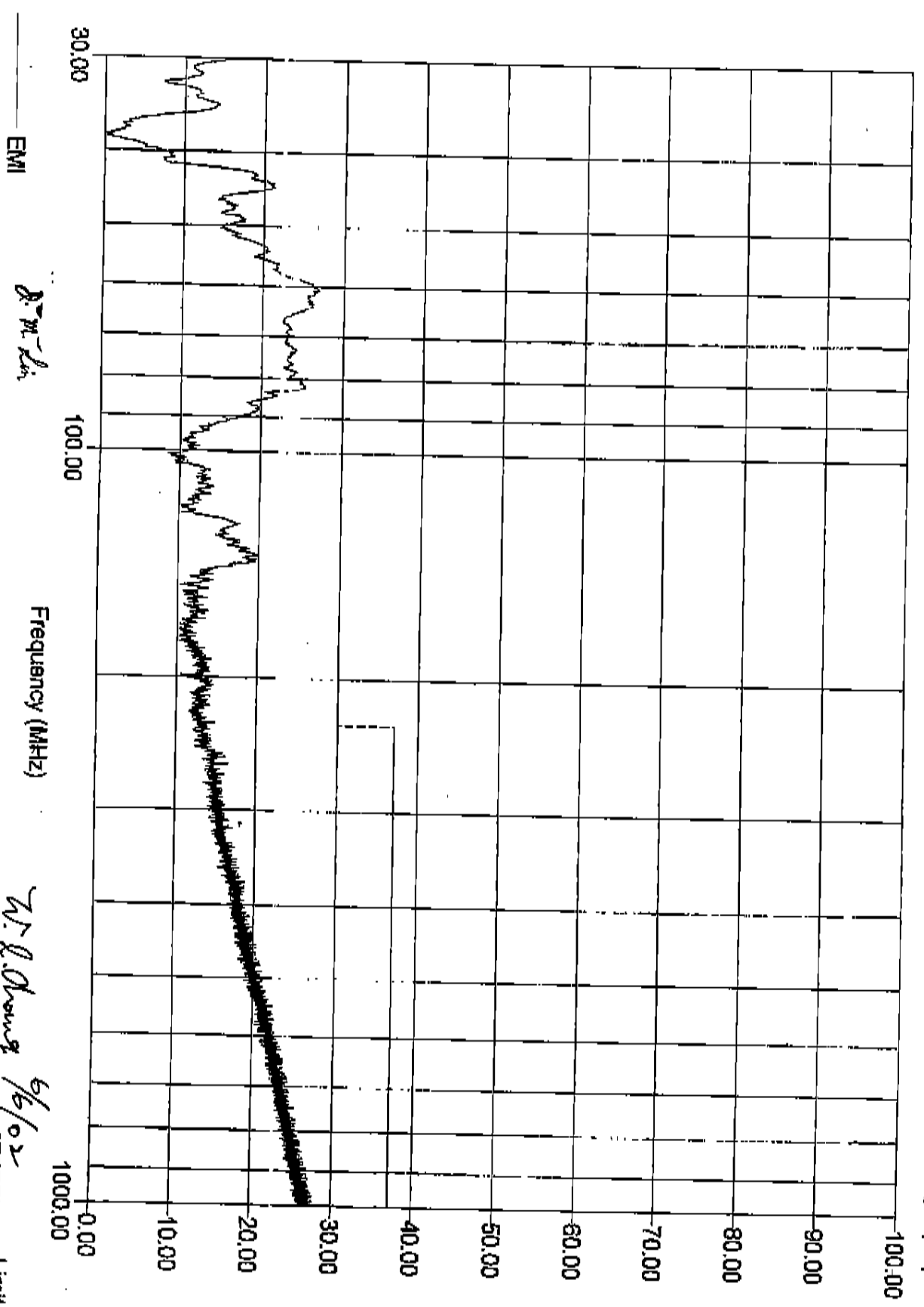
W. L. Chang 6/6/0

Model: 201A
Type: G1-500148-12
Operator: J.M.Lin

Impedance: 300 Ohm
Output: Full
Lead

Graph 25

Field Strength (dBuV/m)



Serial: 110000000
Model Type: GP-500148-12
Operator: J.M.H.H

Input: 220V ac Output: 150W Load

Graph 25

Field Strength (dBuV/m)

