MTBF TEST

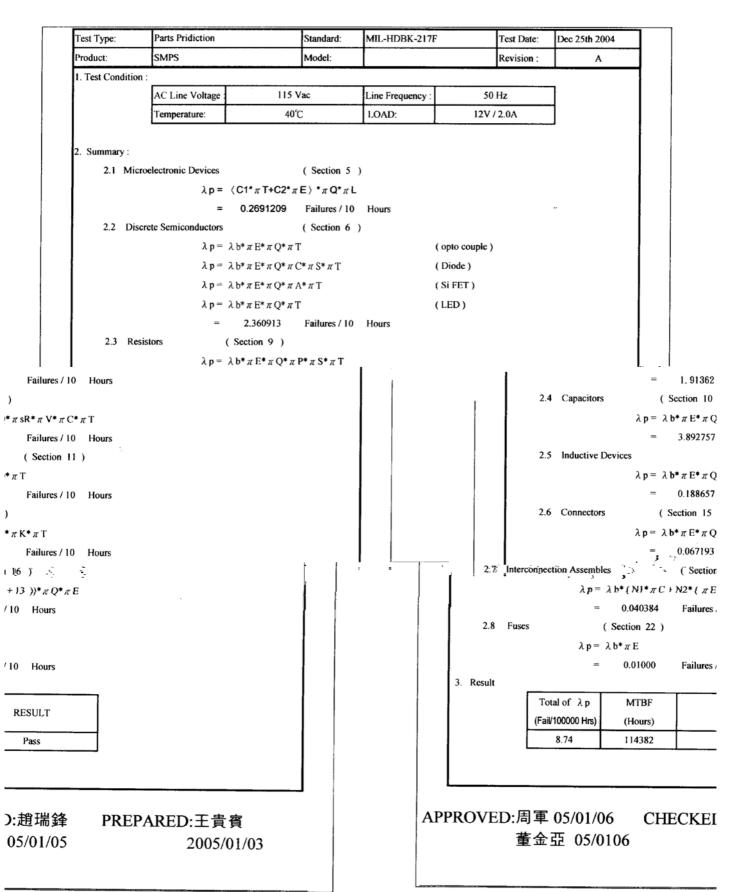
REPORT

OF

SWITCH ADAPTER

MODEL

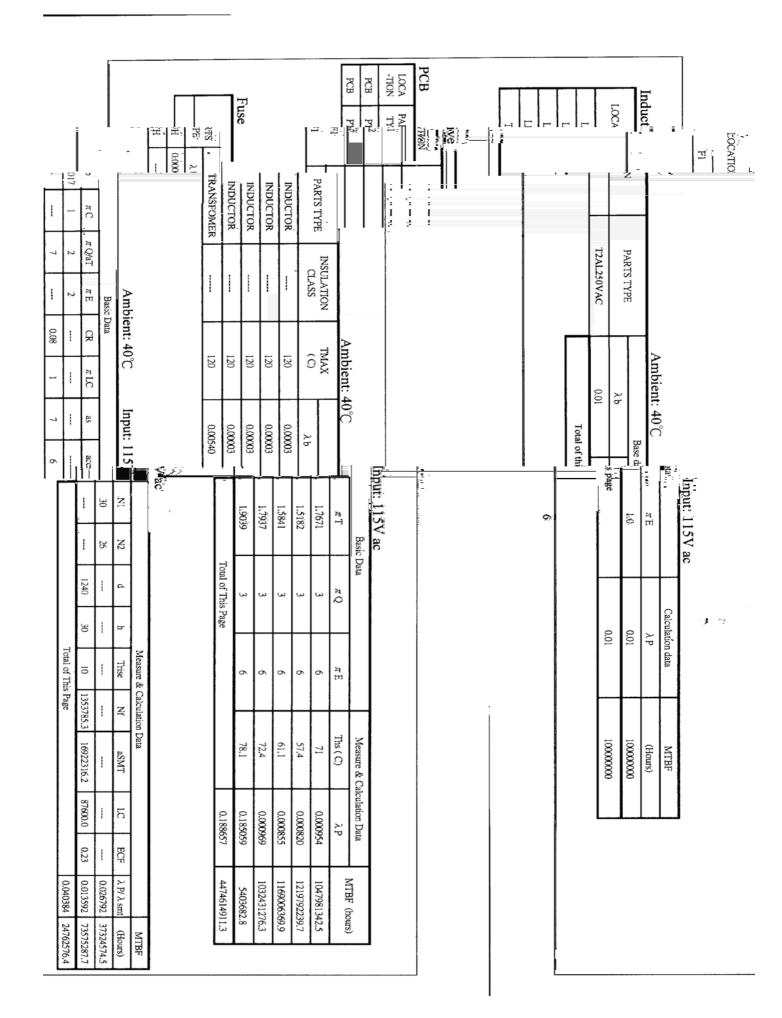
T1235-001



	ΕĐ	IC2	Ω	SCR1	ZD4	ZD1	BD1	D4A	D3	D2	므		LOCATION	Discrete s			IC4	IC1	Location	Microelec		
	LED	PHOTO COUPLER	MOS-FET	ZEBER DIODE	MD-DIODE-ZENE	MD-DIODE-ZENE	BRIDGE-DIODE	DIODE-SCHOTTKY	1N4148	DIODE-RECT	DIODE-FAST		PART TYPE	Discrete semiconductors			TL 431	IC PWM ONSEMI	Part type	Microelectronic devices		
	ı		600		15.6	15.6	600	100	75	1000	100		(S)				0.002	0.05	P(W)	Ambie		
		I	ı	1.0000			1		ı	1	ı		πR				74.0	70.2	Тj°С	Ambient: 40°C		
	lı l		4		Į,	<u>lı_</u>		1_	L				π I	_ '≥		<u> </u>	1	_	1			1
			0.0040	0.0025	0.0120	0.0022	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	λЬ		mbient: 40°C			w.	30.	Pin	andre.
			ı			0.1000	0.8232	0.0006	0.0378	0.1229	0.0085	0.0440	0.1229	# S		C			2	22	πE	The same
			2.8973	3.6650	2.2996	4.0285	4.3709	3.9302	4.6343	4.4953	3.7980	4.6343	4.0660	πT	Base data	Input: 115V ac			2	2	πQ	
ω					1	-	2.0	2.0	2.0	2.0	2.0	2.0	2,0	πС		15V ac			3.5675	2.8043	πΤ	
			5.5	5.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	πQ				Total Of This Page	1	1	πL	1
			6.0	6.0	1.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	πЕ				s Page	0.001	0.003	C2	1
	-		-	_	263.1	_	14.4	0.72	155.9	42.2	10.56	276.6	42.2	Vop					0.02	0.02	C1	١
				-	l	I	_	_			_	I	ı	I op/ Prat	Measu				2	2		$\left\{ \right.$
			63.2	73.0	69.1	71.4	74.4	70.3	76.7	75.5	69.0	76.7	71.6	(C) (II	Measure & Calculation Data			0.269121	0.146367	0.122754	λP	
		2.360913	0.382446	0.302364	0.883035	0.063811	0.518152	0.000321	0.025238	0.079549	0.004667	0.029380	0.071952	λP	m Data			3715801.9	6832153.0	8146362.7	MTBF	
		3452177944.5	2614751.4	3307275.3	1132458.4	15671309.9	1929936.3	3113113836.0	39623040.3	12570862.4	214278914.1	34037333.6	13898226.7	MTBF							_	j

	DC Outlet	AC Inlet	75	LOCATION	connector			Ç	8	C7	8	C13	C	C4	CG	C2	Cl	CY3	CY1	CXI		LOCATION	Capacitor
	2 Wire	2 PIN	┷	PARTS			-	E-Cap	E-Cap	E-Cap	CAP CER	SMD-CAP CER	CERÁMIC CAP	SMD-CAP CER	E-Cap	CAP-CERAMIC	E-Cap	Y-Cap	Y-Cap	X-Cap		PARTS TYPE].¥
	2	2		PIN NO.	-			105	105	105	125	125	125	125	105	85	105	100	100	100	ô	Tmax	
	0.00700	0.0036	λb					25	16	16	100	50	50	50	50	1000	400	250	250	275	3	Vmax	
	1.5524	1.5785	77 T		Aml			100	1000	1000	0.00047	0.1	0.001	0.1	22	0.0022	68	0.001	0.0033	0.22	(MF)	C	
	24	85			Ambient:			0.0001	0.0001	0.0001	0.0020	0.0020	0.00203	0.0020	0.0001#	0.0020	0.0001	0.0005	0.0005	0.0005	λb	Ţ	Arrib
		4:	# R		Ą		_	51199	62104	8467	5917	6784	51636	6969	7.476	6:209	7.601	1003 1003	₩848÷	1.883	N.		Aribienic 40°C
				Basic Data	Input			1.514	4.898	4.898	0.172	0.813	0.537	0.813	2.036	\dashv	2.639	0.537	0.598	0.873	πC	Bas	
_	2	2	#Q		Input; 115V ac			1.554	4.581	4.581	1.191	-	1.048	\dashv	1.012	\dashv	1.083	1.000	1.003	1.164	πV	Basic Data	Input
	1	1	πE		ac		Γ	1.3	1.3	1.3	1.3	\dashv	1.3	1.3	1.3	\dashv	1.3	1.3	1.3	1.3	7 Sr 7		Input: 115V ac
Tot							Total of This Page	3	3 1	3 1	3 1	\dashv	3	3	ω _	\dashv	3	3 1	3	3	πQ π		ac
Total of This Page	50.5	51.8	Ĉ I₃		9	^;	his Page	10 60	10 70	10 70	10 69	\dashv	10 6	10 7.	10 7/	\dashv	10 7	\dashv	10 6	10 6	tri		
ige	0	0	_					66.0	70.6	70.9	\dashv	\dashv	68.3	\dashv	\dashv	\dashv	\dashv		\dashv	\dashv	T ₂		
	0.6482	0.4290	a T	Mea				12.32	12.39	12.39	43.1	8.23	10.94	12.32	12.32	76.6	146	1.81	47.48	115	(S) VOP	leasure & (
	51.1482	52.2290	o <u>r</u>	Measure & Caculation Data				0.493	0.774	0.774	0.431	0.165	0.219	0.246	0.246	0.077	0.365	0.007	0.190	0.418	S	Measure & Calculation Data	
0.067193	-	0.045460	Ąβ	ition Data			3.892757	0.085847	0.961339	0.971304	0.094359	0.438991	0.247540	0.472473	0.108101	0.279806	0.152569	0.020331	0.022045	0.038051	λP	a	
Н				MilbF			256887	11648637.0	1040215	1029544 ₀	105977975	2277948.6	4039744,5	21165250	9250615%	3573900° s	6554420;	4918630 8	4536073\$ 1	2628019	MTBE	- Leavil	

S



Temperature rise test

Test equipment:

NO	Instrument	Manufacturer & type NO
1	Ac source	special power system MODEL: YF-6010
2	Dc load	Chroma 6314 Dc electronic load
3	Power meter	Zentech 2100 digital power meter
4	Hybrid recorder	YOKOGAWA DR130
5	CONST. TEMP&HUMI.TEST CHAMBER	CTH 060HV

Tests Conditions:

Ambient temp: 40 °C

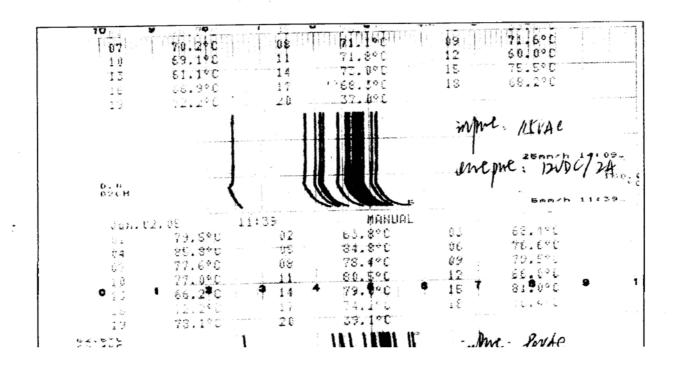
Thermal couple test on the hottest points

Output: 12VDC/2.0A

Input: 90VAC/115VAC/230VAC/264VAC

Test result: pass

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SU						10	1010		
			1.05			63	97.800		
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10.02.05 13.36 13.		10	63.20€	11	64.3°C	12	56.806-		
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1 0 0 5 70.69C 08 66.59C 09 66.59C 0					Manney	100	emer 12000)	SA'	
65.6°C 08 66.5°C 09 66.5°C 12 57.4°C 13 50.2°C 14 71.6°C 15 73.7°C 12 57.4°C 13 64.6°C 17 65.5°C 12 57.4°C 18 63.9°C 13 72.4°C 20 37.1°C 20 37.1°C 20 37.1°C 20 27.6°C		0.1	\$1.4°C	02	£2.7°C	63 07	58.2°€		
20.210 16 71.60 15 73.70 64.010 17 65.30 18 63.9			£5.6°C	3.9	66.500	09	66.6°C		
1 0 17.00 17.00 18 63.90 18 63.90 19.00 19					71.0°C	15	73.700		
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			Mea	sured tem	peratures (°C)	Calcu	lated tempe	ratures
				40	°C	Тор	Trat	Top/Trat	
NO	Location	Part type	90VAC (°C)	(°C)	230VAC (°C)	264VAC (°C)	Top max	Max rating (°C)	De-rating (%)
1	Ll	INDCTOR	79.5	71.0	61.4	60.0	79.5	130	61.15%
2	L2	INDCTOR	63.8	57.4	52.7	52.2	63.8	130	49.08%
3 -	CY3	Y-CAP	68.4	61.9	58.2	57.8	68.4	100	68.40%
4	BD1	BRIDGE-DIODE	85.8	76.7	68.8	68.0		THE RESERVE TO SERVE THE PARTY OF THE PARTY	57.20%
5	LF1 E	INDCTOR	84.8	76.3	70.6	70.2	84.8	130	65.23%
6	D3	DIODE-SW	76.6	69.0	64.5	63.4	76.6	125	61.28%
7		IC .	77.6	70.2	65.6	64.8	77.6	125	62.08%
1	C2	CAP-CER-AMIC	78.4	+ 71.1	: 66.5	65.8		125	62,72%
9	DI	DIODE-FAST	79.5	71.6	66.6	6 <u>5.8</u>	79.5	150	53.00%
- 1	0 Q1	MOS-FET	77.0	69.1	64.5	63.2		**	
1	l R7	RES-METAL	80.5	71.8	65.5	64.3	80.5		
1		Y-CAP	66.0	60.0	57.4	56.8	66.0		
1		INDCTOR	66.2	61.1	60.2	60.0		130	50.92%
		PHOTO COUPLER	i79.0	73.0	71.0	70.7	79.0	125	63.20%
]1	5 D4A	DIODE-SCHOTTKY	81.0	75.5	73.7		81.0	150	54.00%
_1	6 R1A	RES-SMD	72.2	66.9	64.6	64.2	72.2	125	57:76%
1		CERAMIC-CAP	74.2	68.3	65.8	65.5	74.2	125	
سيد	8 R3	SMD C.F-RES	75 <u>.4</u>		63.9	. 63.3	75.4	125	60.32%
1		X'FMR	78.1	72.2	72.4	72.4	78.1	130	60.08%
2)	•		Ambient	temp				

C4 1 = D, 2 + R4 3 =	Rent ZDest Re 6#
121 10# 1210 11#	K7-17# R2A-R2D 8# R2Z-R27 P
11th C3 17th	K13 12# ICY 13# 48 14# C1
Ambient temp 20#	Cf 184 Cf 1P4 C7 15*
03 69.80 E 06 72.00 E 09 75.20 E 12 70.10 C 18 69.40 C 18 69.10 E 26404 C	147.02.06 21:33 MANUAL 01 68.600 97 67.900 04 70.700 05 68.900 07 70.300 05 76.100 10 68.800 11 70.600 13 72.600 14 77.900 15 70.800 17 70.000
93 70.4°L 96 72.4°C 99 75.4°C 12 70.2°C 13 69.1°E	120 131
######################################	Jan. 02.8E 19:57 01 74.5°C 02 73 04 75.8°C 05 74 07 76.8°C 05 79 10 70.6°C 11 72 13 /1.9°C 14 79 16 77.1°C 17 76
MANUAL 100 1 66 7 307626 10 100 190 31.600	Jah. 02. 05 19: 01 01 78.326 92 77 04 79.466 95 78
12 73.8°C 16°C 15 72.4°C 10 72.1°C 10 72.1°C 10 10 72.1°C 10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 72.6°C 11 73 75.8°C 14 60 16 91.4°C 17 86 19 67.5°C 20 45 11 60.6°C 60.6°C 60.8°C

			Me	easured tem	peratures (°C)	Calculated temperatures				
				40	°C	Тор	Trat	Top/Trat			
NO	Location	Part type	90VAC (°C)	115VAC (°C)	230VAC (°C)	264VAC (°C)	Top max (°C)	Max rating (°C)	De-rating (%)		
1	C4	SMD-CAP CER	78.3	74.5	69.1	68.6	78.3	125	62.64%		
2	ZD1	SMD-ZENER DIODE	77.2	73.7	68.4	67.9	77.2	125	61.76%		
3.	R4	SMD C.F-RES	79.3	75.4	70.4	69.8	79.3	125	63.44%		
4	R5	SMD CHIP-RES	79.4	75.8	71.1	70.7	79.4	125	63.52%		
5	ZD4	SMD-ZENER DIODE	78.2	74.4	69.4	68.9	78.2	125	62.56%		
6	R6	RES-SMD-CHIP	80.5	76.8	72.4	72.0	80.5	125	64.40%		
7	R7-1	RES-SMD-CHIP	81.4	76.8	71.0	70.3	81.4	125	65.12%		
8	R2A	SMD RES	82.9	79.8	76.2	76.1	82.9	125	66.32%		
9	R2E	SMD RES	81.6	78.4	75.4	75.2	81.6	125	65.28%		
10	R11	RES-SMD CHIP	72.6	70.6	68.9	68.8	72.6	125	58.08%		
11	R10	SMD-CHIP-RES	73.6	72.0	70.4	70.6	73.6	125	58.88%		
12	R13	RES-SMD CHIP	73.8	71.9	70.2	70.1	73.8	125	59.04%		
13	IC4	SMD REG.TAP TL431	75.8	74.0	72.5	72.6	75.8	125	60.64%		
14	R8	SMD C.F-RES	80.6	79.1	77.8	77.9	80.6	125	64.48%		
15	C1	E-CAP	72.4	70.9	69.3	69.4	72.4	105	68.95%		
16	C3	E-CAP	81.4	77.1	71.0	70.8	81.4	105	77.52%		
17	C8	E-CAP	80.8	76.6	70.6	70.2	80.8	105	76.95%		
18	C9	E-CAP	72.1	70.6	69.1	69.1	72.1	105	68.67%		
19	C7	E-CAP	67.5	66.0	64.3	64.3	67.5	105	64.29%		
20			Ä	Ambient te	mp						

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