

Data Base : MIL - HDBK - 217F Notice 1

Environment : GB, 25°C

Input: 115V

Output: Full Load

Unit : ZPSA40-5

Ver: V10

Date: 2008/8/21

CAT	TYPE	Q'ty		λp	$\lambda (\lambda p * Q'ty)$	%
5.1	Microcircuits	1	IC3	0.033	0.033	1.81
6.1	Diode, Fast	1	D1	0.020	0.020	1.12
6.1	Diode, General	1	BR1	0.001	0.001	0.06
6.1	Diode, General	1	D2	0.001	0.001	0.06
6.1	Diode, General	1	D3	0.001	0.001	0.06
6.1	Diode, Schottky	2	D4, D5	0.004	0.008	0.44
6.1	Voltage Regulator	1	IC2	0.011	0.011	0.60
6.1	Diode, Zener	3	ZD1, ZD3, ZD4	0.011	0.033	1.80
6.4	Transistor MOSFET	1	Q1	0.264	0.264	14.41
6.11	Optocoupler	1	IC1	0.072	0.072	3.90
6.11	Light Emitting Diode	1	LED	0.001	0.001	0.07
9.1	Resistor fixed	1	R1	0.001	0.001	0.04
9.1	Resistor fixed	1	R4	0.001	0.001	0.05
9.1	Resistor fixed	1	R28	0.001	0.001	0.05
9.1	Resistor fixed	2	J1, J2	0.001	0.002	0.08
9.2	Resistor film	2	R2, R3	0.005	0.010	0.56
9.2	Resistor film	1	R5	0.005	0.005	0.26
9.2	Resistor film	2	R9, R10	0.005	0.010	0.56
9.2	Resistor film	1	R11	0.004	0.004	0.20
9.2	Resistor film	1	R12	0.004	0.004	0.20
9.2	Resistor film	1	R13	0.003	0.003	0.17
9.2	Resistor film	1	R14	0.003	0.003	0.17
9.2	Resistor film	1	R15	0.003	0.003	0.17
9.2	Resistor film	1	R16	0.003	0.003	0.17
9.2	Resistor film	1	R17	0.003	0.003	0.17
9.2	Resistor film	1	R18	0.003	0.003	0.17
9.2	Resistor film	1	R20	0.003	0.003	0.17
9.2	Resistor film	1	R21	0.003	0.003	0.17
9.2	Resistor film	1	R22	0.003	0.003	0.19
9.2	Resistor film	1	R23	0.003	0.003	0.19
9.2	Resistor film	1	R24	0.003	0.003	0.17
9.2	Resistor film	2	R27, R27A	0.003	0.007	0.36
9.2	Resistor film	1	ZD2	0.003	0.003	0.17
9.8	Resistor thermistor	1	TH1	0.065	0.065	3.55
9.9	Resistor Variable	1	VR1	0.133	0.133	7.25
10.5	Capacitor metallized	1	Z1	0.017	0.017	0.93

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CAT	TYPE	Q'ty		λp	$\lambda (\lambda p * Q'ty)$	%
10.1	Capacitor ceramic	1	C1	0.012	0.012	0.67
10.1	Capacitor ceramic	1	C2	0.015	0.015	0.83
10.1	Capacitor ceramic	1	C6A	0.014	0.014	0.75
10.1	Capacitor ceramic	1	C11	0.008	0.008	0.43
10.1	Capacitor ceramic	1	C12	0.006	0.006	0.30
10.1	Capacitor ceramic	1	C13	0.004	0.004	0.24
10.1	Capacitor ceramic	1	C14	0.006	0.006	0.31
10.1	Capacitor ceramic	1	C15	0.086	0.086	4.71
10.1	Capacitor ceramic	1	CX1	0.034	0.034	1.84
10.1	Capacitor ceramic	3	CY1,CY2,CY3	0.030	0.091	4.97
10.14	Capacitor electrolytic	4	C3,C4,C5,C7	0.123	0.492	26.85
10.14	Capacitor electrolytic	1	C6	0.143	0.143	7.82
10.14	Capacitor electrolytic	1	C9	0.063	0.063	3.44
11.1	Transformer	1	T1	0.066	0.066	3.61
11.2	Inductive	2	L1,L2	0.008	0.017	0.91
22.1	Fuses	1	F1	0.010	0.010	0.55
16.1	Circuit Board	1	PCB	0.001	0.001	0.03
17.1	Joint hand soldered	2	CON1,CON2	0.000	0.001	0.03
17.1	Joint machine soldered	159		0.000	0.022	1.20
Component Count =		68		Total FR =	1.8318	
				MTBF =	545,903	Hours
					MTBF=(1/Total FR)*10 ⁶ Hours	