

Data Base : MIL - HDBK - 217F Notice 1

Environment : GB, 25°C

Input: 115V

Output: Full Load

Unit : ZPSA20-5

Ver: V10

Date: 2009/9/21

CAT	TYPE	Q'ty		λ_p	$\lambda(\lambda_p * Q'ty)$	%
5.1	Microcircuits	1	IC3	0.0332	0.0332	1.99
6.1	Diode, Fast	1	D1	0.0682	0.0682	4.08
6.1	Diode,General	1	BR1	0.0011	0.0011	0.07
6.1	Diode,General	1	D2	0.0011	0.0011	0.07
6.1	Diode, Schottky	1	D4	0.0029	0.0029	0.17
6.1	Diode, Schottky	1	D5	0.0029	0.0029	0.17
6.1	Voltage Regulator	1	IC2	0.0110	0.0110	0.66
6.1	Diode,Zener	2	ZD1,ZD3	0.0110	0.0220	1.32
6.4	Transistor MOSFET	1	Q1	0.2640	0.2640	15.79
6.11	Optocoupler	1	IC1	0.0715	0.0715	4.28
6.11	Light Emitting Diode	1	LED	0.0013	0.0013	0.08
9.2	Resistor film	1	R1	0.0031	0.0031	0.19
9.2	Resistor film	1	R4	0.0089	0.0089	0.53
9.2	Resistor film	1	R4A	0.0089	0.0089	0.53
9.2	Resistor film	1	R5	0.0044	0.0044	0.26
9.2	Resistor film	1	R6	0.0033	0.0033	0.19
9.2	Resistor film	1	R6A	0.0033	0.0033	0.19
9.2	Resistor film	1	R11	0.0037	0.0037	0.22
9.2	Resistor film	1	R12	0.0036	0.0036	0.21
9.2	Resistor film	1	R13	0.0031	0.0031	0.19
9.2	Resistor film	1	R14	0.0032	0.0032	0.19
9.2	Resistor film	1	R15	0.0031	0.0031	0.19
9.2	Resistor film	1	R16	0.0032	0.0032	0.19
9.2	Resistor film	1	R17	0.0031	0.0031	0.19
9.2	Resistor film	1	R18	0.0031	0.0031	0.19
9.2	Resistor film	1	R20	0.0031	0.0031	0.19
9.2	Resistor film	1	R21	0.0032	0.0032	0.19
9.2	Resistor film	1	R22	0.0036	0.0036	0.21
9.2	Resistor film	1	R23	0.0036	0.0036	0.21
9.2	Resistor film	1	R24	0.0031	0.0031	0.19
9.2	Resistor film	1	ZD2	0.0031	0.0031	0.19
9.8	Resistor thermistor	1	RT1	0.0650	0.0650	3.89
9.9	Resistor Variable	1	VR1	0.1328	0.1328	7.94
10.5	Capacitor metallized	1	Z1	0.0331	0.0331	1.98
10.1	Capacitor ceramic	1	C1	0.0056	0.0056	0.33
10.1	Capacitor ceramic	1	C2	0.0059	0.0059	0.35
10.1	Capacitor ceramic	1	C6A	0.0126	0.0126	0.75
10.1	Capacitor ceramic	1	C10	0.0072	0.0072	0.43
10.1	Capacitor ceramic	1	C11	0.0072	0.0072	0.43

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10.1	Capacitor ceramic	1	C12	0.0066	0.0066	0.39
10.1	Capacitor ceramic	1	C13	0.0043	0.0043	0.26
10.1	Capacitor ceramic	1	C14	0.0056	0.0056	0.33
10.1	Capacitor ceramic	1	C15	0.0154	0.0154	0.92
10.1	Capacitor ceramic	1	CX1	0.0342	0.0342	2.05
10.1	Capacitor ceramic	2	CY1,CY2	0.0114	0.0228	1.36
10.1	Capacitor ceramic	1	CY3	0.0070	0.0070	0.42
10.1	Capacitor ceramic	1	CY4	0.0256	0.0256	1.53
10.14	Capacitor electrolytic	1	C6	0.1112	0.1112	6.65
10.14	Capacitor electrolytic	3	C3,C4,C5	0.1438	0.4313	25.79
10.14	Capacitor electrolytic	1	C9	0.0671	0.0671	4.01
11.1	Transformer	1	T1	0.0661	0.0661	3.95
11.2	Inductive	2	L1,L2	0.0084	0.0167	1.00
22.1	Fuses	1	F1	0.0100	0.0100	0.60
16.1	Circuit Board	1	PCB	0.0005	0.0005	0.03
17.1	Joint hand soldered	6	CN1,CN2	0.0003	0.0017	0.10
17.1	Joint machine soldered	145		0.0001	0.0200	1.20

Component Count = 65

Total FR = 1.6724

MTBF = 597,936 Hours

MTBF=(1/Failure Rate (FR))*10⁶ Hours