

Data Base : MIL - HDBK - 217F Notice 1

Environment : GB, 25°C

Input: 230V

Output: Full Load

Unit : KPSA05-24

Ver: V10

Date: 2008/7/4

| CAT | TYPE | Q'ty | | λp | $\lambda(\lambda p * Q'ty)$ | % |
|------|----------------------|------|---------|-------------|-----------------------------|-------|
| 5.1 | Microcircuits | 1 | IC1 | 0.0332 | 0.0332 | 1.70 |
| 6.1 | Diode, Fast | 1 | D4 | 0.0205 | 0.0205 | 1.05 |
| 6.1 | Diode,General | 1 | BR1 | 0.0047 | 0.0047 | 0.24 |
| 6.1 | Diode,General | 1 | D1 | 0.0034 | 0.0034 | 0.17 |
| 6.1 | Diode,General | 1 | D2 | 0.0011 | 0.0011 | 0.06 |
| 6.1 | Diode,General | 1 | D3 | 0.0011 | 0.0011 | 0.06 |
| 6.1 | Voltage Regulator | 1 | IC3 | 0.0110 | 0.0110 | 0.56 |
| 6.1 | Diode,Zener | 2 | ZD2,ZD3 | 0.0110 | 0.0220 | 1.13 |
| 6.4 | Transistor MOSFET | 1 | Q3 | 0.2640 | 0.2640 | 13.55 |
| 6.11 | Optocoupler | 1 | IC2 | 0.0715 | 0.0715 | 3.67 |
| 6.11 | Light Emitting Diode | 1 | LED1 | 0.0013 | 0.0013 | 0.06 |
| 9.1 | Resistor fixed | 1 | R7 | 0.0008 | 0.0008 | 0.04 |
| 9.2 | Resistor film | 1 | R1 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R4 | 0.0040 | 0.0040 | 0.21 |
| 9.2 | Resistor film | 1 | R5 | 0.0039 | 0.0039 | 0.20 |
| 9.2 | Resistor film | 1 | R6 | 0.0039 | 0.0039 | 0.20 |
| 9.2 | Resistor film | 1 | R8 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R9 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R10 | 0.0041 | 0.0041 | 0.21 |
| 9.2 | Resistor film | 1 | R11 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R12 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R13 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R14 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R15 | 0.0032 | 0.0032 | 0.16 |
| 9.2 | Resistor film | 1 | R16 | 0.0031 | 0.0031 | 0.16 |
| 9.2 | Resistor film | 1 | R18 | 0.0047 | 0.0047 | 0.24 |
| 9.2 | Resistor film | 1 | R20 | 0.0052 | 0.0052 | 0.27 |
| 9.2 | Resistor film | 1 | R21 | 0.0033 | 0.0033 | 0.17 |
| 9.2 | Resistor film | 1 | ZD1 | 0.0031 | 0.0031 | 0.16 |
| 9.8 | Resistor thermistor | 1 | TH1 | 0.0650 | 0.0650 | 3.34 |
| 9.9 | Resistor Variable | 1 | VR1 | 0.1328 | 0.1328 | 6.81 |
| 10.1 | Capacitor ceramic | 1 | C3 | 0.0072 | 0.0072 | 0.37 |
| 10.1 | Capacitor ceramic | 1 | C4 | 0.0061 | 0.0061 | 0.31 |
| 10.1 | Capacitor ceramic | 1 | C5 | 0.0085 | 0.0085 | 0.43 |
| 10.1 | Capacitor ceramic | 1 | C7 | 0.0851 | 0.0851 | 4.37 |
| 10.1 | Capacitor ceramic | 1 | C11 | 0.0275 | 0.0275 | 1.41 |
| 10.1 | Capacitor ceramic | 1 | C12 | 0.0061 | 0.0061 | 0.31 |
| 10.1 | Capacitor ceramic | 1 | C13 | 0.0061 | 0.0061 | 0.31 |
| 10.1 | Capacitor ceramic | 1 | CX1 | 0.2092 | 0.2092 | 10.73 |

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|-------------------|------------------------|------|----------|--------------------------------------------------|---------------------------|-------|
| 10.1 | Capacitor ceramic | 2 | CY1,CY2 | 0.0292 | 0.0584 | 3.00 |
| 10.14 | Capacitor electrolytic | 1 | C1 | 0.0831 | 0.0831 | 4.26 |
| 10.14 | Capacitor electrolytic | 1 | C2 | 0.1628 | 0.1628 | 8.35 |
| 10.14 | Capacitor electrolytic | 1 | C8 | 0.1757 | 0.1757 | 9.02 |
| 10.14 | Capacitor electrolytic | 1 | C9 | 0.3006 | 0.3006 | 15.42 |
| 11.1 | Transformer | 1 | T1 | 0.0661 | 0.0661 | 3.39 |
| 11.2 | Inductive | 3 | L1,L2,L3 | 0.0084 | 0.0251 | 1.29 |
| 22.1 | Fuses | 1 | F1 | 0.0100 | 0.0100 | 0.51 |
| 16.1 | Circuit Board | 1 | PCB | 0.0005 | 0.0005 | 0.03 |
| 17.1 | Joint hand soldered | 4 | Pin | 0.0003 | 0.0011 | 0.06 |
| 17.1 | Joint machine soldered | 123 | | 0.0001 | 0.0170 | 0.87 |
| Component Count = | | 56 | | Total FR = | 1.9488 | |
| | | | | MTBF = | 513,149 | Hours |
| | | | | MTBF=(1/Failure Rate (FR))*10 ⁶ Hours | | |