

Probe Schematic : Bill of Materials

| Qty | I.D. | Value | Package | Manf. | Source | Stock No. | MOQ |
|-----|-------------|--|---------|------------|--------|-----------|-----|
| 2 | R1 R10 | 47kΩ 1% 0.125W RN55 Metal Film Resistor | Axial | Vishay | RS | 851-4879 | 1 |
| 1 | R2 | 1.5kΩ 1% 0.125W CMF55 Metal Film Resistor | Axial | Vishay | RS | 830-7176 | 1 |
| 1 | R3 | 33kΩ 1% 0.125W RN55 Metal Film Resistor | Axial | Vishay | RS | 851-4746 | 1 |
| 4 | R4 R5 R6 R7 | 1.5kΩ 5% 2.0W PRO2 Metal Film Resistor | Axial | Vishay | RS | 683-5732 | 10 |
| 1 | R8 | 680Ω 5% 0.5W SFR16 Metal Film Resistor | Axial | Vishay | RS | 165-0202 | 50 |
| 3 | C1 C2 C3 | 100pF 5% 200VDC Ceramic Multilayer Capacitor | Radial | Kemet | RS | 538-1376 | 5 |
| 4 | C4 C5 C6 C7 | 22pF 5% 500VDC Mica Capacitor | Radial | RS Pro | RS | 495-666 | 5 |
| 1 | C8 | 1nF 10% 100VDC A102 Ceramic Multilayer Capacitor | Radial | Vishay | RS | 831-3357 | 1 |
| 1 | C9 | 47μF 10% 20VDC CTS13 Solid MnO2 Tantalum Capacitor | Axial | Vishay | RS | 684-5001 | 1 |
| 6 | C10 – C15 | 1nF -20% +80% 100V 10A Feed Through Ceramic Capacitor | Radial | Oxley | RS | 126-017 | 1 |
| 1 | L1 L2 | Inductor 47μH 5% Ferrite 200mA Idc | Axial | EPCOS | RS | 880-7206 | 10 |
| 6 | FB1 – FB6 | Ferrite Bead CST9.5/4.8/10-4S2F (53 @ 25MHz) | Sleeve | Ferroxcube | RS | 814-3445 | 10 |
| 2 | D1 D2 | 1N4148 100V 300mA Switching Diode | DO-35 | Fairchild | RS | 843-1562 | 250 |
| 4 | Q1 – Q4 | PN2222ATA 40V 1A hfe>100 ft 300MHz 0.6W NPN Transistor | TO-92 | Fairchild | RS | 739-0381 | 10 |
| 1 | Y1 | Crystal 3.686MHz 2-Pin HC-49U | | Mercury | RS | 672-0179 | 5 |
| 2 | K1 K2 | Relay DPDT 10A 250VAC 12VDC Coil Plug in Type MY2 | | Omron | RS | 488-2604 | 1 |
| 2 | “ “ | Relay Socket PYF08A-N | | Omron | RS | 196-6169 | 1 |
| 7 | S1 – S7 | PCB Header, 2Way 1Row 2.5A 250VAC KK 254 Series | | Molex | RS | 679-5583 | 10 |
| 7 | P1 – P7 | Socket Housing, 2way 1Row KK 254 Series | | Molex | RS | 296-4934 | 5 |
| 14 | “ “ | PCB Connector Contact KK 254 Series | | Molex | RS | 467-598 | 100 |
| 4 | SKT1 – SKT4 | SO239 RF Coaxial UHF Panel Receptor | | | Maplin | BW85G | 1 |
| 1 | | Aluminium Enclosure – TBA | | | | | |
| | | Connecting Wire – TBA | | | | | |