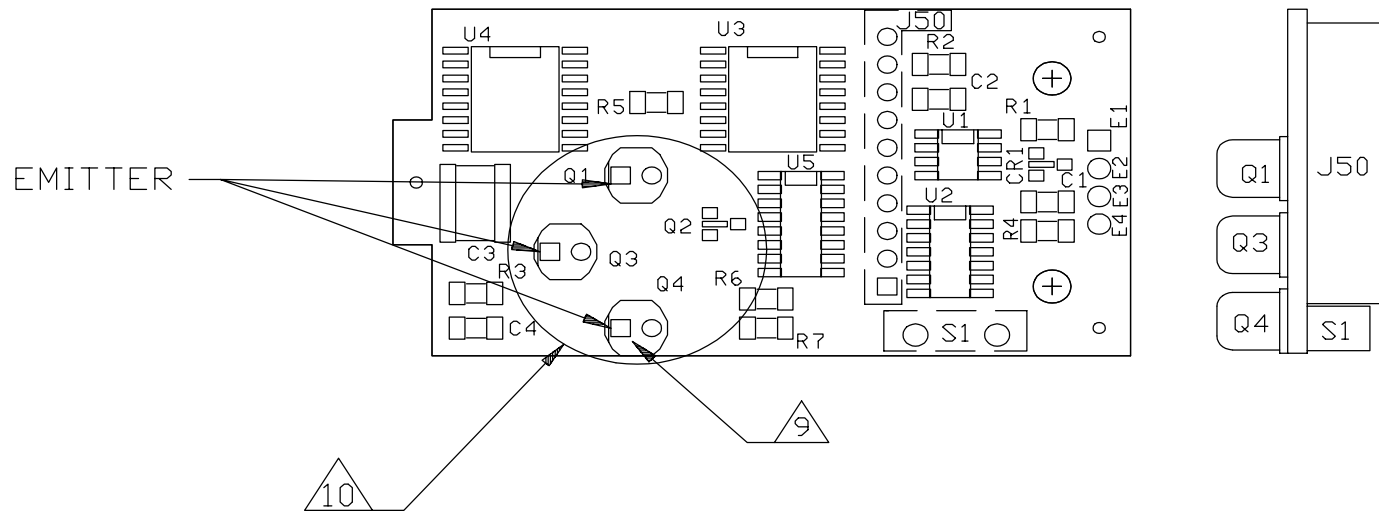


COIN OPTIC DETECTOR BOARD ASSEMBLY

753-064-00 REV A

Component	Description	Part Number
REF SCHEMATIC	BOARD, PC, OPTIC DETECTOR, REV A	753 064 10
REF RAW	BOARD, PC, OPTIC DETECTOR, REV A	753 064 30
REF DRAWING	BOARD, PC, OPTIC DETECTOR, REV A	753 064 50
REF SUB ASSEMBLY/LIST	BOARD, PC, OPTIC DETECTOR, REV A	753 064 40
C1,4	CAPACITOR, CERAMIC, .01UF, 50V, 10%, X7R, 1206	152 108 90
C2	CERAMIC, .1UF, 50V, +80-20%, Z5U, 1206	152 109 90
C3	CAPACITOR, CERAMIC, .47UF, 50V, 10%, X7R, 1825	152 110 90
CR1	DIODE, 1N914, SOT-23, T/R	480 082 91
J50	WAFER, RIGHT ANGLE, .1, 10 PIN	219 283 90
Q1,3,4	PHOTOTRANSISTOR, DARL, PLASTIC, QSD733	373 029 90
Q2	EXTRA, NPN, MMBT3904, SOT23	481 092 90
R1,6	RESISTOR, TFC, 1K OHM, .125W, 1206	474 122 91
R2	RESISTOR, TFC, 51 OHM, .125W, 1206	474 115 90
R3	RESISTOR, TFC, 1.5M OHM, .125W, 1206	474 117 90
R4,7	RESISTOR, TFC, 10K OHM, .125W, 1206	474 116 90
R5	RESISTOR, TFC, 240 OHM, .125W, 1206	474 123 91
S1	SWITCH, PC, MT, MICROMINI, PB, 1A	510 141 90
U1	OPTO, COUPLER, XTR, IL221, SOIC-8	370 021 90
U2	IC, QUAD, 2 IN, NAND, 14093B, SOIC	320 409 90
U3	IC, DUAL, BIN, CTR, 14520B, SOIC W	320 406 90
U4	IC, DUAL, RP, MMULT, 14538B, SOIC W	320 408 90
U5	IC, 4 BIT, MAG, COMP, 14585B, SOIC	320 407 90



- 9. DO NOT ALLOW OPTICAL DEVICES TO COME IN CONTACT WITH ANY CHEMICALS WHICH COULD ALTER THEIR OPTICAL CHARACTERISTICS. MOUNT Q1, Q3 AND Q4 FLUSH TO BOARD. SOLDERING MUST BE DONE WITH "HALIDE FREE", NON-CORROSIIVE FLUXES. FOR HAND SOLDERING, ACCEPTABLE WIRE SOLDER IS "MULTICORE" P/N SN63X39B-.022. FOR WAVE AND SURFACE MOUNT SOLDERING, SELECT A FLUX THAT IS SUITED TO THE TOTAL SOLDERING PROCESS, AND HAS A HALIDE CONTENT LISTED AS NONE.
- 10. SEE IGT SPECIFICATION DRAWING #37302990 FOR COMPONENT MANUFACTURE'S EMITTER MARKING.

COIN OPTIC DETECTOR BOARD SCHEMATIC

753-064-10 REV A

- NOTES: (UNLESS OTHERWISE INDICATED)
1. ALL RESISTORS EXPRESSED IN OHMS, 1/8W, 5%
 2. NETS NAMED T1 THRU T11 ARE TEST FIXTURE TEST POINTS ONLY.
 3. IC POWER PINS
 - 14 PIN PIN 14=VCC, VDD PIN 7=GND, VSS
 - 16 PIN PIN 16=VCC, VDD PIN 8=GND, VSS
 4. ALL WIRES LABELED TP1-TP11 ARE TEST POINTS ONLY AND ARE NO CONNECTS.

