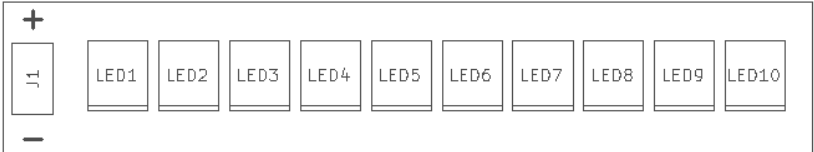



McPhail IR Detector Board v1.0

Part of the McPhail Trap Design

Bill of Materials

Ref	Qty	Description	Digikey PN
J1	1	HEADER MALE 2POS TH 1x02 0.1IN	952-2262-ND
LED1	10	PHOTODIODE	751-1048-
LED10		IR 940NM SMD	1-ND
LED2		TEMD5110X01	
LED3			
LED4			
LED5			
LED6			
LED7			
LED8			
LED9			





FABRICATION NOTES

1. THIS IS A 2 LAYER BOARD.
2. EXTERNAL LAYERS SHALL HAVE 1 OZ COPPER.
3. MATERIAL: FR4 AND 0.062 INCH +/- 10% THICK.
4. BOARDS SHALL BE ROHS COMPLIANT.
5. MANUFACTURE IN ACCORDANCE WITH IPC-6012 CLASS 2
6. MASK: BOTH SIDES OF THE BOARD SHALL HAVE SOLDER MASK (ANY COLOR) OVER BARE COPPER.
7. SILK: BOTH SIDES OF THE BOARD SHALL HAVE WHITE SILKSCREEN. DO NOT PLACE SILK OVER BARE COPPER.
8. FINISH: ENIG.
9. MINIMUM TRACE WIDTH - 0.006 INCH. MINIMUM SPACE - 0.006 INCH. MINIMUM HOLE DIA - 0.013 INCH.
10. MAX HOLE PLACEMENT TOLERANCE OF +/- 0.003 INCH.
11. MAX HOLE DIAMETER TOLERANCE OF +/- 0.003 INCH AFTER PLATING.

