



Bill of Materials for the CAT4137 Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed
U1	1	CMOS White LED Driver	-	-	TSOT23 – 5 pin	ON Semiconductor	CAT4137TS	NO
C1	1	Ceramic Capacitor, X5R	1.0 μ F, 10 V	10%	0805	Murata	GRM219R61A105KC01D	YES
C2	1	Ceramic Capacitor, X5R	0.22 μ F, 50 V	10%	1206	Kemet	C1206C224K5RACTU	YES
L1	1	Inductor, Low DCR	22 μ H, 250 mA	10%	1210	Murata	LQH32CN220K	YES
D1	1	Schottky Diode, Low VF, high current	-	-	SOD-323	Zetex	ZHCS400TA	YES
R1	1	SMT Resistor	6.81 Ω , 1/16 W	1%	0603	Yageo	9C06031A6R81FGHFT	YES
R2	1	Trimmer Potentiometer	100 Ω	10%	6.6mm x 6.1mm	Bourns	3329W-1-101	YES
R3	1	SMT Resistor	1.0 k Ω , 1/16 W	1%	0603	Yageo	RC0603FR-071KL	YES
R4	1	SMT Resistor	200 k Ω , 1/16 W	1%	0603	Yageo	9C06031A2003FKHFT	YES
R5	1	Metal Film Resistor (not soldered on board)	10 k Ω , 1/16 W	1%	Axial	Yageo	MFR-25FBB-10K0	YES
L1 to L3	3	White LED, SMT	-	-	3mm x 2mm	Nichia	NSCW100	YES
L4, L5	2	White LED, SMT (optional – not soldered on board)	-	-	3mm x 2mm	Nichia	NSCW100	YES
J1	1	6-pin Header Connector, 0.1", Single Strip	-	-	-	Sullins Connector Solutions	PTC06SAAN	YES
J3	1	2-pin Header Connector, 0.1", Single Strip	-	-	-	Sullins Connector Solutions	PTC02SAAN	YES
J2, J4, J5		2-pin Header Connector, 0.1", Single Strip (not soldered on board)	-	-	-	Sullins Connector Solutions	PTC02SAAN	YES
S1	1	Momentary Contact Switch, SPST (on)-off	-	-	12mm x 12mm	E-Switch	TL1100F160Q	YES
T1 to T10	10	Pin Receptacle (Test Points)	-	-	-	Mil-Max	#0149-0-15-01-30-14-04-0	YES