



Bill of Materials for the CAT4238AGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	CMOS White LED Driver	-	-	TSOT23 - 5pin	ON Semiconductor	CAT4238TD-G	NO	YES
C1	1	Ceramic Capacitor , X5R	4.7 μ F, 6.3 V	20%	0805	Panasonic	ECJ-GVB0J475M	YES	YES
C2	1	Ceramic Capacitor, X7R	0.22 μ F, 50 V	10%	0805	Taiyo Yuden	UMK212B7224KG-T	YES	YES
L1	1	Inductor, low DCR, high current	47 μ H	10%	6mm x 6mm	Sumida	CDC5D23B-470	YES	YES
D1	1	Schottky Diode, Low VF	40 V, 500 mA	-	SOD-323	Central Semi	CMDSH05-4	YES	YES
R1	1	SMT Resistor	9.0 Ω , 1/16 W	1%	0603	Various	Various	YES	YES
R2	1	Trimmer Potentiometer	100 Ω	10%	6.6mm x 6.1mm	Bourns	3329W-1-101	YES	YES
R3	1	SMT Resistor	1.0 k Ω , 1/16 W	1%	0603	Yageo	RC0603FR-071KL	YES	YES
R4	1	SMT Resistor	200 k Ω , 1/16 W	1%	0603	Yageo	9C06031A2003FKHFT	YES	YES
R5	0	Metal Film Resistor 1/16W, 10k Ω , (not soldered on board)	10 k Ω , 1/16 W	1%	Axial	Yageo	MFR-25FBF-10K0	YES	YES
L1 thru L10	10	-	-	-	3mm x 2mm	Nichia	NSSW100	YES	YES
J1	1	-	-	-	-	Sullins Connector Solutions	PTC06SAAN	YES	YES
J2 thru J4	3	-	-	-	-	Sullins Connector Solutions	PTC02SAAN	YES	YES
T1 thru T10	10	-	-	-	-	Mil-Max	0149-0-15-01-30-14-04-0	YES	YES