



Bill of Materials for the CAT4201AGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	High Efficiency Step-Down LED Driver	-	-	SOT-23-5	ON Semiconductor	CAT4201TD-GT3	No	Yes
Q1	1	PNP Bipolar Transistor	-45V / -500mA	-	SOT-23	ON Semiconductor	BC807-25LT1G	No	Yes
Q2	1	NPN Bipolar Transistor	45V / 100mA	-	SOT-23	ON Semiconductor	BC847CLT1G	No	Yes
D	1	Schottky Diode	40V / 500mA	-	SOD-323	Central Semi	CMDSH05-4	Yes	Yes
C1	1	Ceramic Capacitor X7R	4.7 μ F / 50V	10%	1210	Murata	GRM32ER71H475KA88L	Yes	Yes
C2	1	Ceramic Capacitor X5R	10 μ F / 35V	10%	1210	Taiyo Yuden	GMK325BJ106KN-T	Yes	Yes
L	1	Inductor, low DCR	33 μ H, 0.97A	30%	7.00mm x 7.00mm	Sumida	CDRH6D28-330	Yes	Yes
R1	1	SMT Resistor	1/10W, 8.2k Ω	1%	603	Yageo	9C06031A8201FKHFT	Yes	Yes
R2	1	Trim Pot.	47k Ω	20%	7.00mm Diam	Vishay	T63YB473K	Yes	Yes
R3,R5	2	SMT Resistor	1/10W, 1k Ω	1%	0603	Yageo	9T06031A1001FBHFT	Yes	Yes
R4	1	SMT Resistor	1 Ω / 500mW	5%	1210	Panasonic	ERJ-P14J1R0U	Yes	Yes
R6	1	SMT Resistor	1/10W, 47k Ω	1%	603	Yageo	9T06031A4702FBHFT	Yes	Yes
R7, R8	2	SMT Resistor	1/10W, 10k Ω	1%	0603	Yageo	9T06031A1002FBHFT	Yes	Yes
J1	1	3 Pin Header Connector	0.1" Pitch	-	-	Tyco	640452-3	Yes	Yes
J2	1	2 Pin Header Connector	0.1" Pitch	-	-	Tyco	640452-2	Yes	Yes
K3	1	6 Pin Header Receptacle	0.1" Pitch	-	-	Tyco	535676-5	Yes	Yes
	1	SPST Pushbutton Switch (not shown in schematic)		-	-	HDK	KSM0631A	Yes	Yes
	1	9V Battery Holder (optional)		-	-	Keystone	1294	Yes	Yes