

Bill of Materials for the LV8829LFQAGEVK Evaluation Board



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
IC1	1	Motor Driver	-	-	VQFN24N	ON Semiconductor	LV8829LFQA	No	Yes
IC2	1	Level Shifter	-	-	TSSOP16	ON Semiconductor	MC14504B	No	Yes
R1	2	Thick film Resistor	0.51Ω,0.25W	±5%	2012(0805Inch)	Rohm	MCR10EZHLR51	Yes	Yes
R2	1	Thick film Resistor	10kΩ,0.1W	±5%	1608(0603Inch)	Rohm	MCR03ERTJ103	Yes	Yes
R4-6	3	Thick film Resistor	200Ω,0.1W	±5%	1608(0603Inch)	Rohm	MCR03ERTJ201	Yes	Yes
R7-9	3	Jumper	0Ω,0.1W	±5%	1608(0603Inch)	Rohm	MCR03ERTJ000	Yes	Yes
R10-14	5	Thick film Resistor	10kΩ,0.1W	±5%	1608(0603Inch)	Rohm	MCR03ERTJ103	Yes	Yes
C1	1	Electrolytic Capacitor	10μF, 50V	±20%	F2.0-5	SUN Electronic Industries	50ME10HC	Yes	Yes
C2	1	Ceramic multilayer Capacitor	0.1μF, 100V	±10%	1608(0603Inch)	Murata	GRM188R72A104KA35*	Yes	Yes
C3	1	Ceramic multilayer Capacitor	0.01μF, 50V	±10%	1608(0603Inch)	Murata	GRM188B11H103KA01*	Yes	Yes
C4	1	Ceramic multilayer Capacitor	0.1μF, 100V	±10%	1608(0603Inch)	Murata	GRM188R72A104KA35*	Yes	Yes
C5	1	Ceramic multilayer Capacitor	0.1μF, 100V	±10%	1608(0603Inch)	Murata	GRM188R72A104KA35*	Yes	Yes
C6	1	Ceramic multilayer Capacitor	0.022μF, 50V	±10%	1608(0603Inch)	Murata	GRM188B11H223KA01*	Yes	Yes
C10-12	3	Ceramic multilayer Capacitor	6800pF, 50V	±10%	1608(0603Inch)	Murata	GRM188B11H682KA01*	Yes	Yes
C13,14	2	Ceramic multilayer Capacitor	0.1μF, 100V	±10%	1608(0603Inch)	Murata	GRM188R72A104KA35*	Yes	Yes
Daughter Board	1	Interface board	-	-	-	ON Semiconductor	-	No	Yes
CN-A1,A2,B	3	Female Socket	-	-	-	MAC8	PM-61	Yes	Yes
CON_M1	1	Socket to Motor	-	-	-	JST	B3B-EH	No	Yes
CON_M2	1	Socket to Motor	-	-	-	JST	BM05B-SRSS-TB	No	Yes
P1	1	Test Point	-	-	-	MAC8	ST-1-3	Yes	Yes
USB cable	1	A-MiniB	-	-	-	-	-	Yes	Yes
Ref Motor	1	BLDC motor	18V-1A	-	-	Minebea	BLIM2430H-A01	Yes	Yes