

Bill of Materials for the LV8814JGEVB Evaluation Board V1.0

ON Semiconductor®



Designator	QTY.	Description	Value	Tolerance	Footprint	Manufacturer	Part Number	Substitution Allowed	Installed	Lead Free
IC1	1	3-phase BLDC Motor Driver	-	-	TSSOP20	ON Semiconductor	LV8814J	No	Yes	Yes
Designator	QTY.	Description	Value	Tolerance	Size	Manufacturer	Part Number			
CM1	1	CAPACITOR	4.7u,25V	±10%	3216	MURATA	GRM31CB31E475MA87	Yes	Yes	Yes
C1	1	CAPACITOR	1.5n, 25V	±10%	1608	MURATA	GRM1882C1H152JA01D	Yes	Yes	Yes
C2	1	CAPACITOR	1.0u, 25V	±10%	1608	MURATA	GRM188R71E105KA12D	Yes	Yes	Yes
C3	1	CAPACITOR	10n, 25V	±10%	1608	MURATA	GRM188B11H103KA01D	Yes	Yes	Yes
C4	1	CAPACITOR	1.0n, 25V	±10%	1608	MURATA	GRM1885C1H102JA01D	Yes	Yes	Yes
R1	1	RESISTOR	0.1, 0.5W	±1%	3216	SUSUMU	RL1632R-R100-F	Yes	Yes	Yes
R2, R4, R6, R8, R10, R11, R16, R18, R21	9	RESISTOR	1.0k, 0.1W	±5%	1608	ROHM	MCR03EZPJ102	Yes	Yes	Yes
R5, R9, R17, R23	4	RESISTOR	47k, 0.1W	±5%	1608	ROHM	MCR03ERTJ473	Yes	Yes	Yes
R12	1	RESISTOR	10k, 0.1W	±5%	1608	Vishay Dale	CRCW060310K0JNEA	Yes	Yes	Yes
R13	1	RESISTOR	4.7k, 0.1W	±5%	1608	ROHM	MCR03ERTJ472	Yes	Yes	Yes
C5, R14, R24	3	RESISTOR	0	-	1608	Yageo	RC0603JR-0703RL	Yes	Yes	Yes
COM1	1	Hedder	-	-		HIROSE	DF1-8P-2.5DSA	Yes	Yes	Yes
COM1	1	Connector	-	-		HIROSE	DF1-8S-2.5R24	Yes	Yes	Yes
COM1	1	Connector	-	-		HIROSE	DF1-8A1.33	Yes	Yes	Yes