



Bill of Materials for the LV8414CSGEVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Two channels of microstep drivers	-	-	WLP32K (2.47x2.47)	ON Semiconductor	LV8414CS	No	Yes
J1-2	2	Motor winding connector	-	-	Pitch 2.54mm	Phoenix Contact	MPT0.5/4-2.54	Yes	Yes
J3	1	DC power supply connector	-	-	Pitch	Phoenix Contact	MPT0.5/4-2.54	Yes	Yes
J4	1	Jumper for VM1/2 connector	-	-	Pitch	USECONN	PH-1x03SG	Yes	Yes
CN-A1-2	1	Female socket	-	-	Pitch 2.54mm	USECONN	FH-2x20	Yes	Yes
CN-B	1	Female socket	-	-	Pitch 2.54mm	USECONN	FH-1x20	Yes	Yes
C1-2	2	Capacitor	10u, 25V	±10%	3216 BIG	MURATA	GRM31CR71E106K	Yes	Yes
C3	1	Capacitor	1u, 25V	±10%	1608 BIG	MURATA	GRM188B31E105K	Yes	Yes
R1 R3 R5 R7	4	RFRresistor	1, 0.5W	±5%	5025 BIG	ROHM	MCR50JZHJ1R0	Yes	Yes
R2 R4 R6 R8	4	RFRresistor	1, 0.5W	±5%	5025 BIG	ROHM	MCR50JZHJ1R0	Yes	Yes
R9	1	Resistor	2K, 0.1W	±5%	1608 BIG	KOA	RK73B1JTxxxJ	Yes	Yes
SCL	1	LED	Yellow	-	1608 BIG	STANLEY	FY1111C-TR	Yes	Yes
	5	Terminal Pin ST-1-3	-	-				Yes	Yes