



Bill of Materials for the LV8324CGEVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Motor driver IC			TSSOP14EP	ON semiconductor	LV8324C	No	Yes
U2	1	Non-Inverting Buffer			SOT-23	ON semiconductor	MC74VHC1G07	Yes	Yes
T1	1	Pch MOSFET			TO263 (D2-PAK)	ON Semiconductor	FQB8P10TM	Yes	Yes
T2	1	NPN Transistor			PCP	ON Semiconductor	2SC3646T	Yes	Yes
D1	1	Schottky diode			SMA	ON Semiconductor	MBRA340T3G	Yes	Yes
J1	1	Pin Socket 20			Pitch 2.54mm	Useconn	FH-2x20SG	Yes	Yes
J2	1	Pin Socket 20			Pitch 2.54mm	Useconn	FH-2x20SG	Yes	Yes
J3	1	Motor connector			Pitch 2.54mm	HIROSE Electronics	DF1-6P-2.5DSA(05)	Yes	Yes
J4	1	Power supply connector			Pitch 2.54mm	Tyco Electronics	282834-2	Yes	Yes
JP1	1	Jumper 3SW			Pitch 2.54mm	Useconn	PH-1x40SG	Yes	Yes
JP2	1	Jumper 2SW			Pitch 2.54mm	Useconn	PH-1x40SG	Yes	Yes
C1	1	Capacitor	4.7u, 100V	±10%	3225 BIG	MURATA	GRM32DC72A475K	Yes	Yes
C2	1	Capacitor	0.1u, 100V	±10%	1608 BIG	MURATA	GRM188R72A104K	Yes	Yes
C3	1	Capacitor	1u, 25V	±10%	1608 BIG	MURATA	GRM188B31E105K	Yes	Yes
C4	1	Capacitor	0.01u, 50V	±10%	1608 BIG	MURATA	GRM188B11H103K	Yes	Yes
R1	1	Resistor	2.2k, 0.1W	±5%	1608 BIG	KOA	RK73B1JTxxxJ	Yes	Yes
<b>R2-4 R10-13</b>	<b>7</b>	<b>Resistor</b>	<b>10k, 0.1W</b>	<b>±5%</b>	<b>1608 BIG</b>	<b>KOA</b>	<b>RK73B1JTxxxJ</b>	Yes	Yes
R5	1	Resistor	100k, 0.1W	±5%	1608 BIG	KOA	RK73B1JTxxxJ	Yes	Yes
R6-7	2	Resistor	100m, 0.5W	±1%	3216 BIG	Rohm	UCR18EVHFLR100	Yes	Yes
R8	1	Resistor	3.9k, 0.1W	±5%	1608 BIG	KOA	RK73B1JTxxxJ	Yes	Yes
R9 R14	2	Resistor	1k, 0.1W	±5%	1608 BIG	KOA	RK73B1JTxxxJ	Yes	Yes
RO1	1	Solder JP			4030			Yes	Yes
Mother Board	1							Yes	Yes
	16	Terminal Pin				MAC8	ST-1-3	Yes	Yes