



Bill of Materials for the LB11868VGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
IC1	1	Motor Pre-Driver	-	-	SSOP20J (225mil)	ON Semiconductor	LB11868V	No	Yes
Tr1,Tr2	2	P-ch/N-ch MOSFET	-	-	SOIC8	ON Semiconductor	FW344A	No	Yes
D1	1	schottky barrierdiode	-	-	SMA	ON Semiconductor	MBRA340T3G	No	Yes
D2	1	schottky barrierdiode	-	-	SOD-123LF	ON Semiconductor	MBR140SFT3G	No	Yes
R1,R2	2	resistor	2.2(0.1W)	±5%	1608(0603Inch)	KOA	RK73B1JTTD2R2J	Yes	Yes
R3,R4	2	resistor	1k(0.33W)	±5%	3216(1206Inch)	ROHM	ESR18EJPJ102	Yes	Yes
R5,R7	2	resistor	100(0.1W)	±5%	1608(0603Inch)	KOA	RK73K1JTD101J	Yes	Yes
R6,R8,R25	3	resistor(Jumper)	0(0.1W)	±5%	1608(0603Inch)	KOA	RK73Z1JTDD0QJ	Yes	Yes
R11,R21,R22	3	resistor	1k(0.1W)	±5%	1608(0603Inch)	KOA	RK73B1JTDD102J	Yes	Yes
R12,R17,R23,R24	4	resistor	10k(0.1W)	±5%	1608(0603Inch)	KOA	RK73B1JTDD103J	Yes	Yes
R26	1	resistor	1(0.1W)	±5%	1608(0603Inch)	KOA	RK73B1JTDD1R0J	Yes	Yes
Rf1,Rf2,Rf3,Rf4	4	SENSE resistor	0.47(0.25W)	±5%	2012(0805Inch)	ROHM	MCR10EZHJLR47	Yes	Yes
C1,C2	2	VCC Bypass capacitor	10uF/25V	±10%	3216(1206Inch)	MURATA	GRM31CB31E106KA	Yes	Yes
C3,C4	2	capacitor	4700pF/50V	±10%	1608(0603Inch)	MURATA	GRM188B11H472K	Yes	Yes
C11	1	capacitor	1000pF/50V	±5%	1608(0603Inch)	MURATA	GRM1882C1H102J	Yes	Yes
C12,C14	2	capacitor	0.1uF/25V	±10%	1608(0603Inch)	MURATA	GRM188R11E104K	Yes	Yes
C13	1	capacitor	220pF/50V	±5%	1608(0603Inch)	MURATA	GRM1882C1H221J	Yes	Yes
C15	1	capacitor	2.2uF/25V	±10%	2012(0805Inch)	MURATA	GRM219B31E225K	Yes	Yes
C16,C18	2	capacitor	1uF/25V	±10%	1608(0603Inch)	MURATA	GRM188B31E105K	Yes	Yes
C17	1	capacitor	0.47uF/25V	±10%	1608(0603Inch)	MURATA	GRM188B31E474K	Yes	Yes
C19	1	capacitor	6800pF/50V	±10%	1608(0603Inch)	MURATA	GRM188B11H682K	Yes	Yes
TP1-TP12	11	Test points	-	-	-	MAC8	ST-1-3	Yes	Yes