



Bill of Materials for the LV8731VGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Capacitor for Charge pump	0.1 μ F, 100V	\pm 10%	1608	Murata	GRM188R72A104KA35*	Yes	Yes
C2	1	Capacitor for Charge pump	0.1 μ F, 100V	\pm 10%	1608	Murata	GRM188R72A104KA35*	Yes	Yes
C3	1	VREG5 stabilization Capacitor	0.1 μ F, 100V	\pm 10%	1608	Murata	GRM188R72A104KA35*	Yes	Yes
C4	1	Capacitor to set CEM timer	100pF, 50V	\pm 5%	1608	Murata	GRM1882C1H101JA01*	Yes	Yes
C5	1	Capacitor to set chopping frequency	180pF, 50V	\pm 5%	1608	Murata	GRM1882C1H181JA01*	Yes	Yes
C6	1	VM Bypass Capacitor	10 μ F, 50V	\pm 20%	F2.0-5	SUN Electronic Industries	50ME10HC	Yes	Yes
R1	1	Pull-up Resistor for terminal EMO	47k Ω , 1/10W	\pm 5%	0603	KOA	RK73B1JT**473J	Yes	Yes
R2	1	Pull-up Resistor for terminal MONI	47k Ω , 1/10W	\pm 5%	0603	KOA	RK73B1JT**473J	Yes	Yes
R3	1	Channel 1 output current detective	0.22 Ω , 1W	\pm 5%	6432 (2512)	ROHM	MCR100JZHJLR22	Yes	Yes
R4	1	Channel 2 output current detective	0.22 Ω , 1W	\pm 5%	6432 (2512)	ROHM	MCR100JZHJLR22	Yes	Yes
IC1	1	Motor Driver	-	-	SSOP44K	ON Semiconductor	LV8731V	No	Yes
SW1-SW11	11	Switch	-	-	-	MIYAMA	MS-621C-A01	Yes	Yes
TP1-TP29	29	Test Point	-	-	-	MAC8	ST-1-3	Yes	Yes