



Bill of Materials for the LV5980MCGEV B Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Step Down Switching Controller	-	-	SOIC8	ON Semiconductor	LV5980MC	No	Yes
L1	1	Inductor	10uH / 5.2A	10%	-	TOKO INC	FDVE1040-100M	Yes	Yes
R1	1	Resistor for Comparator voltage	47kohms	5%	1608	KOA	RK73B1JTDD473J	Yes	Yes
R2	1	Setting Vout Voltage resistor	220kohms	1%	1608	KOA	RK73H1JTDD2203F	Yes	Yes
R3	1	Setting Vout Voltage resistor	680kohms	1%	1608	KOA	RK73H1JTDD6803F	Yes	Yes
R3	1	Setting Vout Voltage resistor	0ohms	-	1608	KOA	RK73Z1JTDD	Yes	Yes
C1	2	Capacitor for Vin stability	10uF / 25V	10%	3216	Murata Manufacturing	GRM31CB31E106K	Yes	Yes
C2	3	Capacitor for Vout stability	10uF / 6.3V	10%	2012	TDK Corp	C2012JB0J106M	Yes	Yes
C3	1	Capacitor for VPDR stability	1uF / 25V	10%	1608	Murata Manufacturing	GRM188B31E105K	Yes	Yes
C4	1	Capacitor for VREF stability	1uF / 25V	10%	1608	Murata Manufacturing	GRM188B31E105K	Yes	Yes
C5	1	Capacitor to set SS/HICCUP time	2.2nF / 50V	10%	1608	Murata Manufacturing	GRM188B11H222K	Yes	Yes
C6	1	Capacitor for Comparator voltage	4.7nF / 50V	10%	1608	Murata Manufacturing	GRM188B11H472K	Yes	Yes
D1	1	Rectifier diode	-	-	-	ON Semiconductor	SB3003CH	Yes	Yes