



Bill of Materials for the SEC-6D6KW-OBC-SIC-GEVB_CONTROL Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C6, C11, C12	4	MLCC 1206-50V-473M-COG	473/50V		SMT_1206_CM	TDK	CGA5H2C0G1H473JT	Yes	Yes
C2, C3,C4,C7 C8,C9	6	MLCC 1206-25V-106M-X7R	106/25V		SMT_1206_CM	WURTH	8.85012E+11	Yes	Yes
C5, C10	2	MLCC 0805-50V-105M-X7R	105/50V		SMT_0805_C	WURTH	8.85012E+11	Yes	Yes
CON1	1		P_1*12		LLC-Standby			Yes	Yes
CON2	1		P_1*8		Pin 1*4			Yes	Yes
D1, D3, D4, D6	4	Schottky Diode,200mA,30V	NSVBAT54SWT1G		SOT-23-3L	ON Semiconductor	NSVBAT54SWT1G	No	Yes
D2, D5	2	Zener Diode 4.7V 0.5W,SOD-123	MMSZ4V7T1G		SOD-123FL	ON Semiconductor	SZMMSZ4V7T1G	No	Yes
Q1	1	Dual N-MOS 60V 28mR,SO-8FL	NVMFD5C680NL		SO8FL	ON Semiconductor	NVMFD5C680NLT1G	No	Yes
R1, R2, R3, R4, R5, R6	6	Chip resister 1206 3.3K ohm-J	3.3K		SMT_1206_R	Any		Yes	Yes
R7	1	Chip resister 0805 500 ohm-J	100R		SMT_0805_R	Any		Yes	Yes
R8, R10	2	Chip resister 0805 22 ohm-J	22		SMT_0805_R	Any		Yes	Yes
R9	1	Chip resister 0805 18K ohm-J	18K		SMT_0805_R	Any		Yes	Yes
R11, R12	2	Chip resister 0805 10K ohm-J	10K		SMT_0805_R	Any		Yes	Yes
R13	1	Chip resister 0805 5.1K ohm-J	5.1K		SMT_0805_R	Any		Yes	Yes
R14	1	Chip resister 0805 2K ohm-J	2K		SMT_0805_R	Any		Yes	Yes
T1, T2	2	EP7,20V-0.1A,Power For LLC Driver	EP7		EP7	WURTH	750344380	Yes	Yes
U1	1	LED Driver, High-Voltage Half-Bridge Controller	NCL30059		SOP8	ON Semiconductor	NCL30059BDR2G	No	Yes