



Bill of Materials for the SECO-LVDCDC3064-IGBT-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2, C4, C6, C8, C9, C10, C11, C12, C13	10	SMD Multilayer Ceramic Capacitor, 10 µF, 25 V, 0805 [2012 Metric], ± 10%, X7S, CGA Series	10 µF		0805	TDK	CGA4J1X7S1E106K125AE	Yes	Yes
C3	1	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 220pF 0603 X7R 10% AEC-Q200	220 pF		0603	KEMET	C0603C221K5RACAUTO	Yes	Yes
C5	1	GRT188C81E225KE13D - SMD Multilayer Ceramic Capacitor, 2.2 µF, 25 V, 0603 [1608 Metric], ± 10%, X6S, GRT Series, Murata	2.2 µF		0603	Murata	GRT188C81E225KE13D	Yes	Yes
C7	1	Multilayer Ceramic Capacitors MLCC - SMD/SMT CGA 0603 50V 2200pF X7R 10% AEC-Q200	2.2 nF		0603	TDK	CGA3E2X7R1H222K080AA	Yes	Yes
CON1	1	PTH right angle male header 2 pins 2.54 mm pitch Würth Elektronik	613 002 110 21			Würth Elektronik	61300211021	Yes	Yes
CON2	1	WR-PHD 2.54 mm THT Angled Pin Header 1x4	61300411021			Würth Elektronik	61300411021	Yes	Yes
D1	1	Zener Single Diode, 18 V, 500 mW, SOD-123, 5 %, 2 Pins, 150 °C	SZMMSZ18T1G			ON Semiconductor	SZMMSZ18T1G	No	Yes
D2, D3, D4, D5, D6	5	Trench Schottky Rectifier, Very Low Leakage 2A, 60V ON Semiconductor	NRVTS2H60E			ON Semiconductor	NRVTS2H60ESFT1G	No	Yes
IC1	1	Buck / Boost / Inverting Converter, Switching Regulator, 1.5 A, with On/Off Function	NCV3064MNTXG			ON Semiconductor	NCV3064MNTXG	No	Yes
R1	1	SMD thick film resistor 1k3 0603 1% 100 mW Panasonic	1300		0603	Panasonic	ERJ3EKF1301V	Yes	Yes
R2	1	SMD thick film resistor 7k5 0603 1% 100 mW Panasonic	7500		0603	Panasonic	ERJ3EKF7501V	Yes	Yes
R3	1	SMD Current Sense Resistor, 0.22 ohm, ERJ3R Series, 0603 [1608 Metric], 100 mW, ± 1%, Thick Film, Panasonic	0.22		0603	Panasonic	ERJ3RQFR22V	Yes	Yes
R4	1	SMD thick film resistor 2k26 0603 1% 100 mW Panasonic	2260		0603	Panasonic	ERJ3EKF2261V	Yes	Yes
R5	1	SMD thick film resistor 10k 0603 1% 100 mW Panasonic	10k		0603	Panasonic	ERJ3EKF1002V	Yes	Yes
R6, R7	2	SMD thick film resistor 5k1 0603 1% 100 mW Panasonic	5100		0603	Panasonic	ERJ3EKF5101V	Yes	Yes
TR1	1	Custom transformer Flyback converter Uin=15V Uout1=15V Uout2=7.5V Uout3=7.5V Uout4_aux=-5V rev0.1	750319077			Würth Elektronik	750319077_r01	Yes	Yes