



Bill of Materials for the SECO-NCV51513HB-GEVB Evaluation Board

Designator(Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C4	1	CAP CER 100nF 50V X7R 0805	100nF		CAPC2013X1 45X50ML20T 25	Kemet	C0805C104J5RACTU	No	Yes
C1	1	Capacitor, C Series, 0.1 uF, 10%, X7R, 200 V, 1206 [3216 Metric]	100nF		CAPC3216X1 80X20ML20	Kemet	C1206C104K2RACTU	No	Yes
J1, J2	2	Jumper TH 5.08mm			Jumper 5.08mm	Keystone Electronics	1430-1	No	Yes
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14	14	TH Test point (2.54mm dia)			TH Test point	Keystone Electronics	5001	No	Yes
D2	1	Ultrafast power rectifier 600V			SMA	ON Semiconductor	NRVUA160VT3G	No	Yes
D3, D4	2	DIODE SCHOTTKY 30V 1A SOD123			ONSC-SOD- 123	ON Semiconductor	MBR130T1G	No	Yes
IC2	1	130 V, 2.0 A / 3.0 A High and Low Side Drivers with Dead Time & Interlock			DFN10 3x3	ON Semiconductor	NCP51513ABMNTW G	No	Yes
Q1, Q2	2	Single, N-Channel, 40V, 3.1mOhm, 107A			WDFN8 3.3x3.3	ON Semiconductor	NVTF55C453NLWFT AG	No	Yes
Q3, Q4	2	Single, N-Channel, 80V, 1.9mOhm, 224A			ONSC-DFN-5- 488AA V	ON Semiconductor	NVMF56H800NLT1G	No	Yes
X20, X21	2	1x1 male pin header . 19mm overall length. 11mm contact length			1x1 pin header	Samtec	FWS-01-01-T-S	No	Yes
R2, R3, R21	3	Res Thin Film 0204(1406) 2 Ohm 1% 1/4W ±50ppm/°C Conformal Melf SMD Blister T/R	2R		RESC3216X89 X51LL25T25	Vishay	SMM02040C2008FB3 00	No	Yes
R5, R6, R9, R23	4	Res Thick Film 0805 22K Ohm 5% 1/8W ±200ppm/°C Molded SMD Paper T/R	22kR		RESC2013X70 X40LL20T20	Vishay	CRCW080522K0JNEA IF	No	Yes
R4, R8	2	RES SMD 6.8 OHM 5% 1/8W 0805	6.8R		RESC2013X70 X40NL20T20	Vishay Dale	CRCW08056R80JNEA	No	Yes
R1, R10, R12, R14, R15, R16, R19, R20	6	Res Thick Film 0603 0 Ohm Molded SMD Automotive Paper T/R	0mR		603	Vishay Dale	CRCW06030000Z0EB	No	Yes
X1	1	Header 3x1 2.54mm			3x1 male header PCB connector	Würth Electronics	61300311121	No	Yes
X4	1	Conn header 4x2 2.54mm			4x2 PCB connector	Würth Electronics	61300821121	No	Yes
C7	1	CAP CER 2.2u 25V 0805	2.2uF		CAPC2013X1 45X50ML20T 25	Yageo	CC0805KKX7R8BB22 5	No	Yes

