



Bill of Materials for the SECO-NCD5700-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C3, C4, C6	4	0.47µF 50V Ceramic Capacitor X7R 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm)	0.47µF 50V		0805	Murata Electronics North America	GRM21BR71H474KA88K	Yes	Yes
Cb	1	100pF 500V Ceramic Capacitor COG, NPO 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm)	100pF 500V		0805	KEMET	C0805C101JCGCAUTO	Yes	Yes
D1	1	Diode Schottky 30V 200mA (DC) Surface Mount SOD-123	SBAT54T1G		SOD-123	ON Semiconductor	SBAT54T1G	No	Yes
D2	1	Diode Avalanche 1300V 1A (DC) Surface Mount DO-214AC (SMA)	1300V 1A			Vishay Semiconductor Diodes Division	BYG23T-M3/TR	Yes	Yes
IGBT	DNP		DNP			Molex, LLC	10081031		
P1	DNP		DNP			Samtec Inc.	TSW-107-07-F-S		
P2	DNP		DNP			Samtec Inc.	TSW-103-07-F-S		
R1, R2, R3, R8, R9, R11	6	2.2 kOhms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	2k2		0603	Vishay Dale	CRCW06032K20JNEAHP	Yes	Yes
R4, R5	2	0 Ohms Jumper 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film	0R		0603	Panasonic Electronic Components	ERJ-3GEY0R00V	Yes	Yes
R6	1	1 kOhms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	1K		0603	Rohm Semiconductor	ESR03EZPJ102	Yes	Yes
R10	1	22 kOhms ±5% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	22k		0603	Rohm Semiconductor	ESR03EZPJ223	Yes	Yes
Rgh, Rgl	2	10 Ohms ±1% 0.5W, 1/2W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200, Pulse Withstanding Thick Film	10R		0805	Panasonic Electronic Components	Panasonic Electronic Components	Yes	Yes
U1	1	Optoisolator Transistor Output 3750Vrms 1 Channel 4-SOP	FODM217D		4-SOP	ON Semiconductor	FODM217D	No	Yes
U2, U3	2	Logic Output Optoisolator 10Mbps Open Collector, Schottky Clamped 3750Vrms 1 Channel 20kV/µs CMTI 5-Mini-Flat	FODM611			ON Semiconductor	FODM611	No	Yes
U4	1	High-Side or Low-Side Gate Driver IC 16-SOIC	NCD5700		16-SOIC	ON Semiconductor	NCD5700DR2G	No	Yes