



Bill of Materials for the NCD57253GEVB Evaluation Board

Designator(Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
IC1	1	IGBT Driver, 2channel, SOIC16WB	NCD57253		SOIC-16W	ON Semiconductor	NCD57253DWR2G	No	Yes
DAOFF, DBOFF	2	RF Schottky diode 30V, 200mA, SOD-123	MMSD301T1G		SOD-123	ON Semiconductor	MMSD301T1G	No	Yes
VIN, +5V, POWERA, POWERB	4	LED SMD GREEN, 0805, 1,9V, 2mA, 120°, 0,8mcd	LED SMD GREEN		SMD 0805	KingBright	KP-2012LSGC	Yes	Yes
DISABLE	1	LED SMD RED, 0805, 1,85V, 2mA, 120°, 30mcd	LED SMD		SMD 0805	KingBright	KPT-2012SRC-PRV	Yes	Yes
C1, C3, C9	3	CAP, CERAMIC, 100nF, 50V, X7R, 5%, 0805	100nF / 50V	5%	SMD 0805	kemet	C0805C104J5RACAUTO	Yes	Yes
C2, C4, C10	3	CAP, CERAMIC, 10uF, 35V, X5R, 10%, 0805	10uF / 35V	10%	SMD 0805	MURATA	GRM21BR6YA106KE43L	Yes	Yes
C6, C8	2	CAP, CERAMIC, 10uF, 35V, X7R, 20%, 1206	10uF / 35V	20%	SMD 1206	TDK	C3216X7R1V106M160AC	Yes	Yes
C5, C7	2	CAP, CERAMIC, 100nF, 50V, X7R, 10%, 1206	100nF / 50V	10%	SMD 1206	kemet	C1206C104K5RACTU	Yes	Yes
R1, R2, R3, R4, R5, R6, R8	7	RES, FILM, 10kOhm, 150V, 125mW, 1%, 0805	10k	1%	SMD 0805	vishay	CRCW080510K0FKEA	Yes	Yes
RGAON, RGAOFF, RGBON, RGOFF	4	RES, FILM, 100Ohm, 150V, 125mW, 1%, 0805	10R	1%	SMD 0805	vishay	CRCW080510R0FKEA	Yes	Yes
R7	1	RES, FILM, 100kOhm, 150V, 125mW, 1%, 0805	100k	1%	SMD 0805	vishay	CRCW0805100KFKEA	Yes	Yes
P1	1	Dual PIN header solder from the side of the board	2x20		TH2x20	Würth	61304021121	Yes	Yes
PCB	1	PCB - FR4/IS400, 1,5mm, Copper 35/35um, TOP/BOT mask BLACK, TOP/BOT labels WHITE, Final Surface inert Au	RA0261DB_0		51x51mm	not specified		No	Yes
DC/DC-A, DC/DC-B	0(optional)	DC-DC power source	MGJ2D051505SC MGJ2D121505SC MGJ2D052005SC MGJ2D152015SC		10x13x20mm	MURATA	MGJ2D051505SC MGJ2D121505SC MGJ2D052005SC MGJ2D152015SC	Yes	Yes
VIN SET	0	On Board Solder jumper	no set						
ANB SET	1	On Board Solder jumper	set to OFF						
DT SET	1	On Board Solder jumper	set to OFF						
B-IN SET	1	On Board Solder jumper	set to INB						

