



Bill of Materials for the NCD57200EVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
DR1	1	IGBT Driver	NCD57200		SOIC-8	ON Semiconductor	NCD57200	No	Yes
D1, D2	2	Schottky diode 30V	MMSD301T1G		SOD-123	ON Semiconductor	MMSD301T1G	No	Yes
D3	1	Super fast rectifier 1000V	US1MFA		SOD-123 FL	ON Semiconductor	US1MFA	No	Yes
TP1, ..., TP22	22	SMD test point				Harwin	S1751-46R	Yes	Yes
C1	1	Electrolytic capacitor	47uF / 35V		SMD radial d8x6.2	Panasonic	EEE1VA470P	Yes	Yes
C7, C8	2	Ceramic capacitor	33p / 50V		0805	kemet	C0805C330J5GACTU	Yes	Yes
C2	1	Ceramic capacitor	100n / 50V		0805	kemet	C0805C104J5RACAUTO	Yes	Yes
C3	1	Ceramic capacitor	10u / 35V		0805	Murata	GRM21BR6Y106KE43L	Yes	Yes
C4, C9	2	Ceramic capacitor	10u / 35V		1206	TDK	C3216X7R1V106M160AC	Yes	Yes
C5, C6	2	Ceramic capacitor	100n / 50V		1206	kemet	C1206C104K5RACTU	Yes	Yes
C10, C11	2	Ceramic capacitor	1n / 50V		0805	kemet	C0805C102K5RACTU	Yes	Yes
R5, R10	2	Resistor	49R9		0805	vishay	CRCW080549R9FKEA	Yes	Yes
R1, R2, R3	3	Resistor	2R2		0805	vishay	CRCW08052R20FKEA	Yes	Yes
R4, R6, R7, R8, R11	5	Resistor	0R		0805	vishay	CRCW08050000Z0EA	Yes	Yes
SP1a, SP2a, SP3a, SP4a	4	plastic spacer	M3x10			duratool	D01489	Yes	Yes
SP1b, SP2b, SP3b, SP4b	4	plastic screw	M3x10			duratool	119030010	Yes	
Part Number 1	1	DR1 part number and EBR specification	paper sticker 10x25mm					Yes	
PCB	1	PCB - FR4/IS400, 1,5mm, Copper 35/35um, TOP/BOT mask BLACK, TOP/BOT labels WHITE, Final Surface inert Au	RA0003EB_0		43x85mm	GATEMA PRAGOBOARD		Yes	
								Yes	
Q1	1	N-mosfet 50V/220mA	BSS138		SOT-23-3	ON Semiconductor	BSS138	No	
R13	1	Resistor	10k		0805	vishay	CRCW080510K0FKEA	Yes	
R12	1	Resistor	120R		0805	vishay	CRCW0805120RFKEAHP	Yes	
R9, R14	2	Resistor	20k		0805	vishay	CRCW080520K0FKEA	Yes	