

Bill of Materials for the NCV7707CGEVB Evaluation Board



Designator	QTY	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	RoHS
C1,C2,C3,C4,C8,C22	6	Ceramic Capacitor SMD	100NF, 50V, X7R	10%	0603	Murata	GCM188R71C683KA37D	Yes	Yes
C21	1	Ceramic Capacitor SMD	22UF, 16V, X7R	10%	1210	Murata	GCM32ER71C226KE19L	Yes	Yes
C7*	1	Ceramic Capacitor SMD	220NF, 50V, NPO	10%	0603	Murata	GCM188R71H224KA64D	Yes	Yes
C5*,C9,C10,C11,C12,C13,C14,C15,C16,C17,C18,C19,C20	13	Ceramic Capacitor SMD	4.7NF, 50V, X7R	10%	0603	Murata	GCM188R71H472KA37D	Yes	Yes
C6	1	Aluminum Capacitor SMD	100UF, 50V	20%	10x10mm	Rubycon	50THV100M10X10.5	Yes	Yes
R5,R6,R7,R8,R9,R10	6	Resistor SMD	100R	1%	0603	Yageo	RC0603FR-07100RL	Yes	Yes
R11	1	Resistor SMD	2.2KR	1%	0603	Yageo	RC0603FR-072K2L	Yes	Yes
R4	1	Resistor SMD	10KR	1%	0603	Yageo	RC0603FR-0710KL	Yes	Yes
R2,R3	2	Resistor SMD	100KR	1%	0603	Yageo	RC0603FR-07100KL	Yes	Yes
Z1	1	Zener Diode	15V, 300mW, 20mA	5%	SOD323	onsemi	MM3Z15VT1G	Yes	Yes
D1	1	TVS	P6SMB36CAT3	-	SMB	onsemi	P6SMB36CAT3	Yes	Yes
Q1	1	Power MOSFET	60V, 20A, 37mR, Single N-Channel	-	DPAK	onsemi	NTD20N06T4G	Yes	Yes
Q2	1	Power MOSFET	40V, 101A, 4.2mR, Single N-Channel	-	DPAK	onsemi	NTD5802NT4G	Yes	Yes
U1	1	Door-Module Driver-IC	NCV7707C	-	SSOP36-EP	onsemi	NCV7707DQCR2G	No	Yes
U2	1	LDO	5V, 100mA	2%	SOT223	onsemi	NCV4264ST50T3G	Yes	Yes
LED5V	1	LED SMD Green	WL-SMCD	-	0805	WURTH ELEKTRONIK	150080VS75000	Yes	Yes
P1	1	SIL Header	2 pins, 2.54mm pitch	-	X2APH	WURTH ELEKTRONIK	61300211121	Yes	Yes
P4	1	SIL Header	8 pins, 2.54mm pitch	-	X8APH	WURTH ELEKTRONIK	61300811121	Yes	Yes
P2,P3,P5	8	Screw terminal block	2POS, right angle, TH; 5.0mm	-	Screw_CON_5.0mm_TH_2way	WURTH ELEKTRONIK	691137710002	Yes	Yes

* not assembled, 4.7nF/50V/X7R capacitor between pins 1 and 3 of Q2 used instead