

Bill of Materials for the NCV78XXXDRVR1GEVB LED Driver Mother Board



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C201,C203,C205,C207,C209,C211,C216,C218,C221,C501,C502,C503	12	Ceramic Capacitor SMD	100nF, 100V, X7R	10%	CAP0805	AVX	08051C104KAZ2A	YES	YES
C202,C204,C206,C208,C210,C212,C213,C214,C219	9	Ceramic Capacitor SMD	2.2µF,100V,X7R	10%	CAP1210	KEMET	C1210C225K1RACTU	YES	YES
C215,C217,C220	3	Ceramic Capacitor SMD	10µF,16V,X7R	10%	CAP1206	AVX	1206YC106KAT2A	YES	YES
C504	1	Ceramic Capacitor SMD	1nF,100V,NP0	5%	CAP1206	AVX	12061A102JAT2A	YES	YES
R129,R130,R510,R512,R513	5	Resistor SMD	0R, 0.1W	5%	R0805	WELWYN	WCR0805-R005JI	YES	YES
R213	1	Resistor SMD	2k0, 1.5W	1%	R2512	MULTICOMP PRO	MCPWR12FTEA2001	YES	YES
R214	1	Resistor SMD	470R, 0.1W	5%	R0603	YAGEO	RC0603JR-07470RL	YES	YES
R202,R204,R206,R208,R210,R212	6	Resistor SMD	10k, 0.1W	5%	R0603	YAGEO	RC0603JR-0710KL	YES	YES
R201,R203,R205,R207,R209,R211	6	Resistor SMD	100k, 0.063W	5%	R0603	YAGEO	RC0603JR-07100KL	YES	YES
R501	1	Resistor SMD	2k0, 0.1W	1%	R0805	MULTICOMP	MC01W080512K	YES	YES
R520,R521	1	Resistor SMD	62R, 0.25W	1%	R1206	WELWYN	WCR1206-62RF1	YES	YES
TP201,TP202,TP203,TP204,TP205,TP206	6	(PK100) TESTPIN 200 SER.	BLACK		TESTPIN HOLE 1.0	VERO	20-2137	YES	YES
SCOPEGND	1	WIRE BRIDGE	SCOPEGND		SCOPEGND_D3082F05	HARWIN	D3082F05	YES	YES
J_VBATx	6	4mm PCB Socket 10A	RED		BANANA 4mm	DELTRON	571-0500-01	YES	YES
J_GNDA, J_GNDB	2	4mm PCB Socket 10A	BLACK		BANANA 4mm	DELTRON	571-0100-01	YES	YES
J_PWR	1	Power Jack 2.5mm	DC, 250V, 5A		Power Jack 2.5mm	SWITCHCRAFT	RAPC712X	YES	YES
J_OUTx	6	WR-TBL Terminal block - serie 313	2 pins, 5.08mm pitch		2x5.08mm	WURTH	WE 691 313 510 002	YES	YES
J_ONMCU	2	Vertical Header Socket 1x17 pin	17pins/2.54mm		17pins/2.54mm	HARWIN	M20-7821746	YES	YES
J_CAN	1	Terminal block 3pin 3.5mm	3pins/3.5mm		3pins/3.5mm	PHOENIX CONTACT	MC 1.5/ 3-G-3,5	YES	YES
J_BST_Lx	6	Header Socket, 2x4-Pin, Dual row	2x4-Pin/2.54mm		2x4-Pin/2.54mm	WURTH	WE 613 008 218 21	YES	YES
J_BCKx_R, J_BST_Rx	12	Header Socket, 2x6-Pin, Dual row	2x6-Pin/2.54mm		2x6-Pin/2.54mm	WURTH	WE 613 012 218 21	YES	YES
J_BCKx_L	6	Header Socket, 2x8-Pin, Dual row	2x8-Pin/2.54mm		2x8-Pin/2.54mm	WURTH	WE 613 016 218 21	YES	YES
D201,D203,D205,D207,D209,D211,D213	7	Zener Diode	12V/500mW/20mA		SOD123	ON SEMICONDUCTOR	MMSZ5242BT1G	YES	YES
D202,D204,D206,D208,D210,D212,D401,D402,D403,D404,D405,D406	12	Shottky Power Rectifier SMD	100V/1A		SOD123	ON SEMICONDUCTOR	MBR1H100SFT3G	YES	YES
D214	1	LED Diode Green	20mA		D0603	AVAGO TECHNOLOGIES	HSMG-C191	YES	YES
Q201,Q202,Q203,Q204,Q205,Q206	6	Power MOSFET SMD	60V,55A,16mR,P-Channel		ATPAK	ON SEMICONDUCTOR	ATP114	YES	YES
Q207	1	NPN Bipolar Transistor SMD	NPN low VCE(sat); 60V/2A/2W/B>100		SOT223	ON SEMICONDUCTOR	NSS60601MZ4	YES	YES
U201	1	5V LDO	500mA,Low Dropout		DPAK-3	ON SEMICONDUCTOR	NCV5501DT50RKG	YES	YES
U202	1	3.3V LDO	500mA,Low Dropout		DPAK-3	ON SEMICONDUCTOR	NCV5501DT33RKG	YES	YES
U501,U502	2	3-to-8 Line Inverting Decoder/Demultiplexer	MC74HC138ADT		TSSOP16	ON SEMICONDUCTOR	MC74HC138ADT	YES	YES
U503	1	CAN FD Transceiver	NCV7344D13R2G		SOIC8	ON SEMICONDUCTOR	NCV7344D13R2G	YES	YES