



Bill of Materials for the NCV78343EVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C201, C211, C213, C501, C601, C602, C705, C706, C708, C805, C806	11	Ceramic Capacitor SMD	100NF 100V X7R	± 10%	CAP0805	AVX	08051C104KAZ2A	Yes	Yes
C202, C203, C204, C205, C206, C207, C208, C209	8	Ceramic Capacitor SMD	2.2UF 100V X7R	± 10%	CAP1210	KEMET	C1210C225K1RACTU	Yes	Yes
C210, C212	2	Ceramic Capacitor SMD	10UF 16V X7R	± 10%	CAP1206	AVX	1206YC106KAT2A	Yes	Yes
C401	1	Ceramic Capacitor SMD	100PF 100V NPO	± 5%	CAP0805	AVX	08051A101JAT2A	Yes	Yes
C502, C503	2	Ceramic Capacitor SMD	1.0NF 100V NPO	± 5%	CAP1206	AVX	12061A102JAT2A	Yes	Yes
C701, C801	2	Ceramic Capacitor SMD	220NF 50V X7R	± 10%	CAP0603	TDK	C1608X7R1H224K080AB	Yes	Yes
C702, C802	2	Ceramic Capacitor SMD	22NF 100V X7R	± 10%	CAP0805	MULTICOMP PRO	MC0805B223K101CT	Yes	Yes
C703, C803	2	Ceramic Capacitor SMD	470NF 16V X7R	± 10%	CAP0603	TDK	C1608X7R1C474K080AC	Yes	Yes
C704, C804	2	Ceramic Capacitor SMD	100NF 50V X7R	± 10%	CAP0603	KEMET	C0603C104K5RACTU	Yes	Yes
C707, C807	2	Ceramic Capacitor SMD	1.0NF 50V X7R	± 5%	CAP0805	YAGEO	CC0805KRX7R9BB102	Yes	Yes
D201, D202	2	Zener diode	12V 500mW		SOD123	ONSEMI	MMSZ5242BT1G	Yes	Yes
D203	1	LED diode	Green LED 20mA		D0603	BROADCOM	HSMC-G191	Yes	Yes
J_ADC_1, J_ADC_2, J_ADC_3	3	PCP Vertical Board to Board	2x3pins/2.54mm		2.54 mm	TE	826632-5	Yes	Yes
J_BCK1_L, J_BCK2_L	2	Header Socket Dual row Straight	2x8pins/2.54mm		2.54 mm	WURTH ELEKTRONIK	61301621821	Yes	Yes
J_BCK1_R, J_BCK2_R	2	Header Socket Dual row Straight	2x6pins/2.54mm		2.54 mm	WURTH ELEKTRONIK	61301221821	Yes	Yes
J_CAN	1	Terminal Block Header Horiz. 3 Way	3pins/3.5mm/250V/10A		3.5 mm	IMO PRECISION CONTROLS	20.155MH/3-E	Yes	Yes
J_GND	1	4mm PCB Socket 10A BLACK	BANANA BLACK		BANANA	DELTRON COMPONENTS	571-0100-01	Yes	Yes
J_LED1, J_LED2, J_LED3, J_LED4	4	Terminal Block Header Horiz. 8 Way	8pins/2.5mm/250V/6A		2.5 mm	IMO PRECISION CONTROLS	20.2500MH/8-E	Yes	Yes
J_LVDS_CON	1	Terminal Block Header Horiz. 4 Way	4pins/3.5mm/250V/10A		3.5 mm	IMO PRECISION CONTROLS	20.155MH/4-E	Yes	Yes
J_LVDS1, J_LVDS2	2	PCP Vertical Board to Board	2pins/2.54mm/Gold		2.54 mm	TE	5-826629-0	Yes	Yes
J_ONMCU	2	PCP Vertical Board to Board	17pins/2.54mm/Gold		2.54 mm	HARWIN	M20-7821746	Yes	Yes
J_OUT1, J_OUT2	2	5.08 mm Close Horizontal PCB Header	2pins/5.08mm/Header		5.08 mm	WURTH ELEKTRONIK	691313510002	Yes	Yes
J_PWR	1	Power jack	2.5mm 250V 5A		PWR JACK 2.5mm	SWITCHCRAFT/CONXALL	RAPC712X	Yes	Yes
J_SUPPLY	1	3.5 mm Close Horizontal PCB Header	2pins/3.5mm/Header		3.5 mm	WURTH ELEKTRONIK	691322110002	Yes	Yes
J_VBAT	1	4mm PCB Socket 10A RED	BANANA RED		BANANA	DELTRON COMPONENTS	571-0500-01	Yes	Yes
L201	1	Power Inductor SMD	1 µH, 10 A	± 20%	10.4mm x 10.4mm x 4.8mm	EPCOS	B82464G4102M000	Yes	Yes
L701, L801	2	Ferrite bead	600R@100MHz 500mA	± 25%	L0805	TAIYO YUDEN	BK2125HM601-T	Yes	Yes
Q201	1	Power MOSFET P-Channel	NVD5117PL		TO-252	ONSEMI	NVD5117PLT4G-VF01	No	Yes
Q202	1	TRANSISTOR NPN low VCE(sat)	NSS60601M24		SOT223	ONSEMI	NSS60601M24T1G	No	Yes
R101, R102, R103, R104, R105, R106, R107, R108, R109, R111, R113, R114, R115, R116, R117, R501, R504, R702, R712, R713, R714, R715, R802	23	Resistor SMD	0R 0.1W	± 5%	R0805	WELWYN	WCR0805-R005JI	Yes	Yes
R110, R112, R201	3	Resistor SMD	100K 0.1W	± 1%	R0805	BOURNS	CR0805-FX-1003ELF	Yes	Yes
R202, R704, R706, R708, R804, R806	6	Resistor SMD	10K 0.125W	± 1%	R0805	MULTICOMP PRO	MCWR08X1002FTL	Yes	Yes
R203	1	Resistor SMD	2.0K 1.5W	± 1%	R2512	MULTICOMP PRO	MCPWR12FTEA2001	Yes	Yes
R204	1	Resistor SMD	470R 0.1W	± 5%	R0603	YAGEO	RC0603JR-07470RL	Yes	Yes
R401, R402, R403, R404	4	Resistor SMD	2.0K 0.125W	± 1%	R0805	MULTICOMP PRO	MCWR08X2001FTL	Yes	Yes
R502, R503, R505, R506	4	Resistor SMD	62R 0.25W	± 1%	R1206	WELWYN	WCR1206-62RFI	Yes	Yes
R701, R801	2	Resistor SMD	0.0R 0.063W	± 5%	R0603	YAGEO	RC0603JR-070RL	Yes	Yes
R703, R803	2	Resistor SMD	56K 0.125W	± 1%	R0805	MULTICOMP PRO	MCWR08X5602FTL	Yes	Yes
R705, R805	2	Resistor SMD	22K 0.125W	± 1%	R0805	MULTICOMP PRO	MCWR08X2202FTL	Yes	Yes
R707	1	Resistor SMD	82K 0.125W	± 1%	R0805	MULTICOMP PRO	MCWR08X8202FTL	Yes	Yes
R709, R809	2	Resistor SMD	100R 0.1W	± 1%	R0603	WALSIN	WR06X1000FTL	Yes	Yes
R716, R717	2	Resistor SMD	4.7K 0.1W	± 1%	R0805	MULTICOMP PRO	MCWR08X4701FTL	Yes	Yes
R807	1	Resistor SMD	91K 0.125W	± 1%	R0805	MULTICOMP PRO	MCWR08X9102FTL	Yes	Yes
R808	1	Resistor SMD	27K 0.125W	± 1%	R0805	MULTICOMP PRO	MCWR08X2702FTL	Yes	Yes
SCOPEGND	1	Shorting Link Plug	10.16mm pitch/Gold		SCOPEGND	HARWIN	D3082-05	Yes	Yes
LEDCTRL1, LEDCTRL2, SYNC_BST, RSTB, MOSI, SCK, MISO, CSB_DEVICE, CSB_EEPROM, RXD1, TXD1, RXD2, TXD2, DIR1, DIR2	15	Testpin				VERO	20-2137	Yes	Yes
U1, U2	2	Single-chip pixel controller with embedded switches	NCV78343		POWER_SSP036_EP	ONSEMI	NCV78343DQ0R2G	No	Yes
U201	1	Fixed LDO Voltage Regulator 3.3V/500mA	NCV5501		TO-252	ONSEMI	NCV5501DT33RKG	Yes	Yes
U501, U502	2	High Speed Low Power CAN FD Transceiver	NCV7344D13R2G		SOIC8	ONSEMI	NCV7344D13R2G	No	Yes
U601	1	Dual inverter	NL27WZ04		TSOP-6	ONSEMI	NL27WZ04DTT1G	Yes	Yes
U602	1	3.3 V Differential Multipoint Low Voltage M-LVDS Driver Receiver	NBA3N206SDG		SOIC8	ONSEMI	NBA3N206SDG	No	Yes
U702	1	EEPROM Serial memory	2 Kbit I2C EEPROM		TSOT-23	ONSEMI	CAT24C02TDI-GT3A	Yes	Yes