



Bill of Materials for the NCV7430GEVK

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
R3, R4, R5, R13, R14, R15, R16	7	Resistor	240 Ω	+/- 5%	0603	MULTICOMP	MC0063W06031240R	YES	YES
R6, R7	2	Resistor	27 Ω	+/- 5%	0603	MULTICOMP	MC 0.063W 0603 5% 27R	YES	YES
R8	1	Resistor	1.5 kΩ	+/- 5%	0603	MULTICOMP	MC 0.063W 0603 5% 1K5	YES	YES
R9	1	Resistor	1.0 MΩ	+/- 5%	0805	MULTICOMP	MC01W080511M	YES	YES
R10, R12	2	Resistor	2.2 kΩ	+/- 5%	0603	MULTICOMP	MC 0.063W 0603 5% 2K2	YES	YES
R11, R21	2	Resistor	10 kΩ	+/- 5%	0603	YAGEO (PHYCOMP)	RC0603JR-0710KL	YES	YES
R17, R18	2	LIN Bus Master Pull-up	2.0 kΩ, 0.25W	+/- 1%	1206	WELWYN	WCR1206-2KFI	YES	YES
R20	1	Resistor	0.0 Ω		0603	YAGEO (PHYCOMP)	RC0603JR-070RL	YES	YES
C1, C2, C6	3	Filter Capacitor	33 nF	+/- 10%	0603	EPCOS	GRM188R71H333KA61D	YES	YES
C3, C4	2	USB Bus Filter Capacitor	47 pF	+/- 10%	0603	KEMET	C0603C470J5GACTU	YES	YES
CD1e, CD6a, CD6b	3	Supply Filter Capacitor	10 uF, 25V	+/- 10%	1210	KEMET	C1210X106K3RACTU	YES	YES
C20, CD1a, CD1b, CD1c, CD1d, CD1f, CD2a, CD3a, CD4a, CD5a, CD6c	11	Supply Filter Capacitor	100 nF	+/- 10%	0603	KEMET	C0603C104K5RACTU	YES	YES
C14, C15, C16	3	Capacitor	100 pF	+/- 10%	0603	YAGEO (PHYCOMP)	CC0603KRX7R9BB101	YES	YES
C17	1	LIN Filter Capacitor	1.0 nF	+/- 10%	0603	MULTICOMP	U0603R102KCT	YES	YES
D2, D6, D7	3	Reverse Battery Diode	MRA4003T3	-	SMA	ON SEMICONDUCTOR	MRA4003T3G	NO	YES
D3, D4	2	Indication LED	GREEN L242GDT	-	LED 3MM TH	KINGBRIGHT	L-424GDT	YES	YES
D5	1	Indication LED	ORANGE L424EDT	-	LED 3MM TH	KINGBRIGHT	L-424EDT	YES	YES
H1, H2, H3	3	LED Holder	6.5mm	-	Round, 5mm, 2	MULTICOMP	LED-6.5A	YES	YES
L1	1	Ferrite Chip Bead	600Ohm@100MHz	-	0805	TAIYO YUDEN	BK2125HM601-T	YES	YES
F1	1	PTC Resettable Fuse	MINISMDC150F/24	-	FUSE MINISMDC	RAYCHEM	MINISMDC150F/24	YES	YES
Y1	1	Ceramic Resonator	6.0 MHz	-	CSTCR6M00G53	MURATA	CSTCR6M00G53-R0	YES	YES
U1	1	USB-UART Convertor	FT232D	-	LQFP48_7X7	FTDI	FT232D/TR	YES	YES
U2	1	Serial EEPROM	CAT93C56VI-G	-	SOIC-8	ON SEMICONDUCTOR	CAT93C56VI-GT3	NO	YES
U3, U4	2	Optocoupler	ACPL074L	-	SOIC-8	AVAGO TECHNOLOGIES	ACPL-074L-000E	YES	YES
U5	1	CMOS Logic Level Shifter	MC74VHC1GT50	-	SOT-23-5	ON SEMICONDUCTOR	M74VHC1GT50D1T1G	NO	YES
U6	1	LIN Transceiver + 5V LDO	NCV7420D26G	-	SOIC-14	ON SEMICONDUCTOR	NCV7420D26G	NO	YES
J1	1	DC Supply Socket	RAPC722X	-	RAPC722X TH	SWITCHCRAFT	RAPC722X	YES	YES
J2	1	USB B-Type Socket	USB-B_SOCKET	-	USB-B TH	LUMBERG	2411 02	YES	YES
J3	1	LIN Bus Socket	RJ11_4P4C	-	87180-044LF TH	FCI	87180-044LF	YES	YES
CASE1	1	Plastic Enclosure	CASE_HH3466	-	-	BUD INDUSTRIES	HH-3466	YES	YES