



Bill of Materials for the NCV70627/8FULLGEVK Evaluation Kit

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
D1	1	Low Loss Schottky Diode	40V, 1.16A	-	SOT-23	Zetex	ZLLS1000	Yes	Yes
IC1	1	1 A, 9 V, Positive Voltage Regulator	-	-	TO-220	ON Semiconductor	MC7809CTG	No	Yes
LED1, LED2, LED3_I2C, LED4_LIN	4	LED's	-	-	3.00mm x 2.20mm	Kingbright	KA-3022SGC-4.5SF	Yes	Yes
C1	1	Ceramic Multilayer X7R	50V, 100nF	±10%	0805	Yageo	CC0805KRX7R9BB104	Yes	Yes
C2	1	Ceramic Multilayer X7R	25V, 100nF	±10%	0805	Yageo	CC0805KRX7R8BB104	Yes	Yes
R2, R10	2	0.5W	1k	±5%	0805	PANASONIC	ERJT06J102V	Yes	Yes
TP_BAR	1	Test Point Bar	-	-	15.24mm x 1.65mm	Welwyn	OAR3 - R005FI	Yes	Yes
CON1	1	Straight 14-way Header	-	-	9.2mm x 25.4mm	Harting	0918 514 6324	Yes	Yes
SPSW1, SPMOTXP, SPMOTXN, SPMOTYN, SPMOTYP, SPVBB, SP_PGND, SPHW1, SPHW2, SPVDD, SPLIN, SPGND, SPHW	1	20-way Sil Socket	-	-	2.54mm x 50.8mm	Harwin	D01-9972042	Yes	Yes
MOTOR_Connector	1	4-way Terminal Block	-	-	10.00mm x 7.50mm	IMO	20.501M/4	Yes	Yes
PowerBus	1	2.1mm DC Power Socket	-	-	11.00mm x 14.00mm	Cliff Electronic Components	DC10A	Yes	Yes
HW2, LIN, SCK, SDA, SW1, VBAT, VBAT/VBB, VBAT2, IO2, IO3	10	2mm Socket - Red	-	-	5.80mm x 10.25mm	Hirschmann	MPB1 Red	Yes	Yes
GND, GND2, PGND	3	2mm Socket - Black	-	-	5.80mm x 10.25mm	Hirschmann	MPB1 Black	Yes	Yes
LIN_Vector_Bus	1	9-pin RS-232 Serial Port	-	-	30.80mm x 15.08mm	Tyco Electronics / Amp	1-1634584-2	Yes	Yes
I2C	1	Modular 6-way RJ-12 Socket	-	-	13.21mm x 18.1mm	Molex	95501-2661	Yes	Yes
CON-LIN	1	Modular 4-way RJ-11 Socket	-	-	11.88mm x 18.1mm	Molex	95501-2441	Yes	Yes
JP_HW/VBAT, JP_HW1VDD, JP_HW2VDD, JPSW1/VBAT	4	2-pin Jumper Header	-	-	2.54mm x 5.08mm	Harwin	M20-9990245	Yes	Yes
JP_HW/GND, JP_HW/HW2, JP_HW1GND, JP_HW2GND, JPSW1, JPSW1/GND	6	2-pin Jumper Header	-	-	2.54mm x 5.08mm	Harwin	M20-9990245	Yes	Yes
S1	1	DPDT Switch	-	-	16.00mm x 18.80mm	C & K	7201MD9V3BE	Yes	Yes
SW2	1	4-pole Latching Switch	-	-	See datasheet	Alps	SPUJ193700	Yes	Yes

SWI_POL, TP_PGND, TPGND, TPHW, TPHW1, TPHW2, TPIO2, TPIO3, TPLIN, TPMOTXN, TPMOTXP, TPMOTYN, TPMOTYP, TPVBAT, TPVBB, TPVDD	16	Terminal, Black	-	-	8.80mm x 25.00mm	Vero	20-2137	Yes	Yes
SUPPORT1, SUPPORT2, SUPPORT3, SUPPORT4,	4	Support Feet	-	-	12.7mm x 12.7mm	3M	SJ5018GREY	Yes	Yes