



Bill of Materials for the NCV760040 Evaluation Board

Designator (Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C2a, Cout1, Cout2, Cout3, Cout4, Cvdd, Cvin1, Cvin2	8	Ceramic Capacitor SMD	100NF, 50V, X7R	10%	0603	Murata	GCM188R71H104KA57	Yes	Yes
C2b, Cvin1a, Cvin2a	3	Ceramic Capacitor SMD	10UF, 35V, X7R	10%	1206	TDK	CGA5L1X7R1V106K160AE	Yes	Yes
Radd0	1	Resistor SMD	563R	1%	0603	Panasonic	ERJ3EKF5360V	Yes	Yes
Radd1, R5	2	Resistor SMD	1.24K	1%	0603	Vishay	CRCW06031K24FKEA	Yes	Yes
Radd2	1	Resistor SMD	2.8K	1%	0603	Vishay	CRCW06032K80FKEA	Yes	Yes
Radd3	1	Resistor SMD	5.62K	1%	0603	Vishay	CRCW06035K62FKEA	Yes	Yes
Radd4	1	Resistor SMD	11.5K	1%	0603	Vishay	CRCW060310K0FKEA	Yes	Yes
Radd5	1	Resistor SMD	27.4K	1%	0603	Vishay	CRCW060311K5FKEA	Yes	Yes
Radd6	1	Resistor SMD	59K	1%	0603	Vishay	CRCW060359K0FKEA	Yes	Yes
Radd7	1	Resistor SMD	133R	1%	0603	Vishay	CRCW0603133KFKEA	Yes	Yes
Rvdd	1	Resistor SMD	0.0R	-	0603	YAGEO	RC0603JR-070RL	Yes	Yes
Rsc1, Rsc2	2	Resistor SMD	330R	1%	0603	Vishay	CRCW0603330RFKEA	Yes	Yes
Rfault, Rsl, Rsda	3	Resistor SMD	4.7K	1%	0603	Multicomp	MC0063W060314K7	Yes	Yes
R6, R7, Rcl1, Rcl2	4	Resistor SMD	10K	1%	0603	Panasonic	ERJ-3EKF1002V	Yes	Yes
R1, R2, R3, R4	4	Resistor SMD	22K	1%	0603	Vishay	CRCW060322K0FKEA	Yes	Yes
Drev	1	Rectification Diode	100V, 2A	-	SMB	onsemi	ES2B	Yes	Yes
D12, D34	2	Dual Common Cathode Switching Diode	100V, 0.2A	-	SOT-323	onsemi	BAV70WT1G	Yes	Yes
ZD1, ZD2	2	ESD protection	36V	-	SMA	VISHAY	SMAJ36A	Yes	Yes
Q1	1	Dual N-Channel MOSFET	35V, 4.5A, 59mOhm	-	ECH8	onsemi	ECH8657-TL-H	Yes	Yes
U1	1	Quad High-Side Drive	NCV760040	-	QFNW20	onsemi	NCV760040MWTXG	No	Yes
U2	1	LDO, 3.3V, 30mA	NCV4294CSN33	2%	TSSOP-5	onsemi	NCV4294CSN33T1G	Yes	Yes
LED_FLT	1	LED SMD Red	80 mcd @ 20 mA	-	0603	KINGBRIGHT	KP-1608SURCK	Yes	Yes
LED1, LED2, LED3, LED4	4	LED SMD Blue	208 mcd @ 20 mA	-	0603	Broadcom	HSMR-C191-S0000	Yes	Yes
FT1, FT2, FT3, FT4	4	Rubber feet	SUPPORT FEET	-	SUPPORT FEET	MULTICOMP	PD.2126G	Yes	Yes
GND	1	SCOPEGND	LINK, SHORTING, 0.4"	-	SCOPEGND	HARWIN	D3082F05	Yes	Yes
Vsup, OUT1-2, OUT3-4	3	Terminal Block, Base Strip	3POS, right angle, TH; 3.5mm	-	Screw_3.5mm_TH_3way	MULTICOMP	2008065	Yes	Yes
Vsup, OUT1-2, OUT3-4	3	Terminal Block, Plug	3POS, right angle, plug; 3.5mm	-	-	MULTICOMP	2008029	Yes	Yes
ONMCU	2	SIL Socket	17 pins, 2.54mm pitch	-	X17APH	Sullins	S7050-ND	Yes	Yes
I2Ca	1	SIL Header	6 pins, 2.54mm pitch, right angle	-	X05APH ANGLE	SAMTEC	TSW-106-08-F-S-RA	Yes	Yes
I2Cb	1	SIL Socket	6 pins, 2.54mm pitch, right angle	-	X05APH ANGLE	WE	613006143121	Yes	Yes
J_VIN	1	SIL Header	2 pins, 2.54mm pitch	-	X2APH	WE	61300211121	Yes	Yes
ADD	1	Triple Header	3x4 pins, 2.54mm pitch	-	X12ATH	SAMTEC	HTSW-104-07-F-T	Yes	Yes
TP_CS, TP_EN, TP_FAULT, TP_OUT1, TP_OUT2, TP_OUT3, TP_OUT4, TP_SCL, TP_SDA, TP_VIN1, TP_VIN2	11	Testpin 200 SER. HOLE 1.0	TP S200 H1.0 BLACK	-	TESTPIN2	VERO	20-2137	Yes	Yes