



Bill of Materials for the NCV76124 Evaluation board

Designator(Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
Board	1	4 layer FR4 1.6mm	PCB			Eurocircuits	NCV76124 CPER Rev 1.1	No	Yes
R33,R34,R36,R37,R36,R38,R39,R40,R41,R42,R43,R47,R50,R54,R55,R56,R57,R58,R59,R60,R61,R62,R63	24	Resistor 2K 0603 0.1%	ERA3AEB202V			Panasonic	ERA3AEB202V	No	Yes
R5,R9,R10,R13	4	Resistor 51 Ohm 0805	CRCW080551R0FKEA			Vishay	CRCW080551R0FKEA	No	Yes
R7,R8,R15,R16,R17,R18,R19	7	Resistor 249 Ohm 0603	CRCW0603249RFKEA			Vishay	CRCW0603249RFKEA	No	Yes
R3,R4	2	Resistor 10k 0603	CRCW060310K0FKEA			Vishay	CRCW060310K0FKEA	No	Yes
R2	1	Resistor 12k 0603	CRCW060312K0FKEA			Vishay	CRCW060312K0FKEA	No	Yes
R1,R11,R12,R14,R20,R21,R22,R23,R24	9	Resistor 100K 0603	CRCW0603100KFKEA			Vishay	CRCW0603100KFKEA	No	Yes
R26,R27	2	Resistor 0.2 Ohm 1206	ERJ8B5FR20V			Panasonic	ERJ8B5FR20V	No	Yes
C3,C4,C5,C6,C7,C8,C9	7	Capacitor 100pF 0603	C0603C101J5GACTU			Kemet	C0603C101J5GACTU	No	Yes
C17..C28	12	Cap 0603 X7R 100nF 100V	06031C104KAT2A			AVX	06031C104KAT2A	No	Yes
PD2,PD3	2	Photodiode 2711	SFH 2711			Osram	SFH 2711	No	Yes
PD4,PD5	1	Photodiode 2700 FA	SFH2700 FA			Osram	SFH2700 FA	No	Yes
PD1	1	Photodiode 2430	SFH2430			Osram	SFH2430	No	Yes
PD6, PD7	2	Photodiode 2400 FA	SFH2400 FA			Osram	SFH2400 FA	No	Yes
D1,D2	2	IR LED	SFH4250-R2S			Osram	SFH4250 S	No	Yes
Q1,Q2	2	Transistor Bipolar	PBSS4160QA			Nexperia	PBSS4160QA	No	Yes
Jumper strip	4		1 row x 32			TE	3-826646-2	No	Yes
Jumpers	40	Jumper black	0-0881545-2			AMP	0-0881545-2	No	Yes
								No	Yes
JG15	0.01	Testpoint Black, 1 needed	20-2137			Vero	20-2137	No	Yes
TP1..TP12	0.11	Testpoint White 11 needed	20-313139			Vero	20-313139	No	Yes
TP13..TP19	0.07	Testpoint Green 6 needed	20-313138			Vero	20-313138	No	Yes

J_ONMCU_A and B	1	Connector strip 36 pole	BL5.36Z			Fischer	BL5.36Z	No	Yes
JVBAT,JV+5V	1	RED Banana	24.243.1			Multicomp	24.243.1	No	Yes
J_GND	1	Black Banana	24.243.2			Multicomp	24.243.2	No	Yes
J_VCC	1	Green Banana	24.243.4			Multicomp	24.243.4	No	Yes
JV-5V	1	Yellow Banana	24.243.3			Multicomp	24.243.3	No	Yes
XL1, XL2	2	Light guide tube, press fit	515-1049F			Dialight	515-1049F	No	Yes