



Bill of Materials for the NCV7718GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1-C19, C23	20	CAP CERAMIC X7R	0.1uF, 50V	10%	0805	Murata	GRM21BR71H104KA01L	Yes	Yes
C20, C21	2	CAP CERAMIC X7R	1uF, 50V	10%	0805	Murata	GRM21BR71H105KA12L	Yes	Yes
C22	1	CAP CERAMIC X5R	22uF, 16V	20%	1206	Murata	GRM31CR61C226ME15L	Yes	Yes
D1-D6	6	LED GREEN CLEAR THIN SMD	-	-	0805	Lite-On Inc	LTST-C171GKT	Yes	Yes
D7	1	DIODE SWITCH	75V, 200MA	-	SOT-23	ON Semiconductor	BAS16LT3G	No	Yes
J1, J2, J4, J6, J7, J8, J9	7	CONN TERM BLOCK 2POS 5.08MM PCB	-	-	-	Phoenix Contact	1729128	Yes	Yes
J3, J5, J10-J19, J21, J22, J25-J33	23	TEST POINT PC MULTI PURPOSE RED	-	-	-	Keystone Electronics	5010	Yes	Yes
J20	1	CONN HEADER VERT 24POS .100 GOLD	-	-	-	TE Connectivity	5499910-5	Yes	Yes
J23, J24	2	CONN HEADER 2POS .100 VERT GOLD	-	-	-	Molex	22-28-4024	Yes	Yes
M1	1	N-CHANNEL MOSFET	20 V, 0.75 A	-	SOT23	ON Semiconductor	MGSF1N02LT1G	No	Yes
Q1	1	N-CHANNEL MOSFET	60V, 24A	-	DPAK	ON Semiconductor	NTD24N06LT4G	No	Yes
R1, R8, R9, R10, R11, R15	6	RESISTOR 1/8W	620Ω	1%	0805	Vishay/Dale	CRCW0805620RFKEA	Yes	Yes
R2, R3, R6, R7	4	RESISTOR 1/10W	0Ω	1%	0603	Panasonic - ECG	ERJ-3GEY0R00V	Yes	Yes
R4	1	RESISTOR 1/8W	2Ω	1%	0805	Vishay/Dale	CRCW08052R00FKEA	Yes	Yes
R5	1	RESISTOR 1/8W	200Ω	1%	0805	Vishay/Dale	CRCW0805200RFKEA	Yes	Yes
R12	1	RESISTOR 1/8W	10kΩ	1%	0805	Vishay/Dale	CRCW080510K0FKEA	Yes	Yes
R13	1	RESISTOR 1/8W	14.7kΩ	1%	0805	Vishay/Dale	CRCW080514K7FKEA	Yes	Yes
R14	1	RESISTOR 1/8W	30.9kΩ	1%	0805	Vishay/Dale	CRCW080530K9FKEA	Yes	Yes
R16	1	RESISTOR 1/8W	22kΩ	1%	0805	Vishay/Dale	CRCW080522K0FKEA	Yes	Yes
R17-R22	6	RESISTOR 1/8W	0Ω	1%	0805	Vishay/Dale	CRCW08050000Z0EA	Yes	Yes
U1	1	Half-Bridge Driver	-	-	-	ON Semiconductor	NCV77XX	No	Yes
U2	1	IC FLIP-FLOP DUAL CMOS	-	-	SOIC-14	ON Semiconductor	MC14013BDR2G	No	Yes
U3	1	Single Inverter	-	-	-	ON Semiconductor	NL17SH04P5T5G	No	Yes
U4	1	IC LATCH OCTAL D 3STATE	-	-	TSSOP-20	ON Semiconductor	MM74HC573MTC	No	Yes
U5	1	IC EEPROM 1KBIT	1MHz	-	SOIC-8	Atmel	AT24C01BN-SH-B	Yes	Yes
U6	1	IC REG LDO	400mA	-	DPAK	ON Semiconductor	NCV4276BDTADJRKG	No	Yes