



Bill of Materials for the NCP1075NONGEV B Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Switcher IC - NCP1075	100 kHz	-	SOT223	ON Semiconductor	NCP1075STBT3G	No	Yes
D7, D8	2	Schottky diode	3A, 40V	-	SMB	ON Semiconductor	MBRS240L (or MBRS2040L)	No	Yes
D1, 2, 3, 4	4	Diode - 60 Hz,	1A, 800V	-	SMA	ON Semiconductor	MRA4007	No	Yes
D5	1	Diode - fast recov	1A, 600V	-	axial lead	ON Semiconductor	1N4937	No	Yes
D6	1	Schottky diode	200mA, 30V	-	SOD-123	ON Semiconductor	BAT54	No	Yes
D9	1	Signal diode	100mA, 100V	-	SOD-123	ON Semiconductor	MMSD4148A	No	Yes
Z1	1	Zener diode	4.3V, 500 mA	-	SOD-123	ON Semiconductor	MMSZ5229BT1G	No	Yes
Q1	1	Dual NPN matched xstr	45V, 100 mA	-	SOT-363	ON Semiconductor	NST45011MW6T1G	No	Yes
C1, C2	2	"X" cap, box type	100nF, X2	10%	LS = 15 mm	Rifa, Wima	PHE840MD7100MD20R0	Yes	Yes
C4	1	Ceramic cap, disc	1 nF, 1kV	5%	LS = 7.5 mm	Kemet	C330C102JDG5TA	Yes	Yes
C6	1	Ceramic cap, monolythic	1 nF, 50V	10%	1206	Murata	GRM3195C1H102JA01D	Yes	Yes
C7, 8, 11	3	Ceramic cap, monolythic	0.1uF, 50V	5%	1206	Murata	GRM31M7U1H104JA01L	Yes	Yes
C3	1	Electrolytic cap	10uF, 400/450V	10%	16.0mm Diameter	Nichicon	UPW2W100MHD	Yes	Yes
C10	1	Electrolytic cap	1000uF, 16V	10%	10.0mm Diameter	Nichicon	UVR1C102MPD	Yes	Yes
C5	1	Electrolytic cap	22uF, 25V	10%	5.0mm Diameter	UCC, Panasonic	EEA-GA1E220H	Yes	Yes
C9A, C9B	2	Electrolytic cap	1,500uF, 6.3V	10%	10.0mm Diameter	UCC, Panasonic	EKY-6R3ELL152MJ20S	Yes	Yes
R1	1	Resistor, 2W, Wire wound	6.8 ohm, 2W	10%	2.39mm x 10.31mm	Ohmite, Dale	RWR80S6R80FSS73	Yes	Yes
R3	1	Resistor, 0.5W, metal film	68Kohm, 0.5W	10%	2.29mm x 6.10mm	Ohmite, Dale	CMF0768K000JLEA	Yes	Yes
R2A,R2B	2	Resistor, 1/4W SMD	3.3 Meg ohms	5%	SMD 1206	AVX, Vishay, Dale	CRCW12063M30JNEA	Yes	Yes
R5	1	Resistor, 1/4W SMD	120 ohms	1%	SMD 1206	AVX, Vishay, Dale	CRCW1206120RFKEA	Yes	Yes
R4	1	Resistor, 1/4W SMD	2.0K	1%	SMD 1206	AVX, Vishay, Dale	CRCW12062K00FKEA	Yes	Yes
R9, R10	2	Resistor, 1/4W SMD	10K	1%	SMD 1206	AVX, Vishay, Dale	CRCW120610K0FKEA	Yes	Yes
R6	1	Resistor, 1/4W SMD	100 ohms	1%	SMD 1206	AVX, Vishay, Dale	CRCW1206100RFKEA	Yes	Yes
F1	1	Fuse, TR-5 style	1A, 250V	-	TR-5, LS=5mm	Various	Various	Yes	Yes
L1A, L1B	1	Inductor (EMI choke)	1 mH, 500 mA	-	8.5mm Diameter	Würth Elektronik	7447728102	Yes	Yes
T1 (5/8.5Vout)	1	Transformer	E20/10/6 core	-	See Mag Drawing	Würth Magnetics	750313309 Rev 02	Yes	Yes
J1	1	Screw Terminal	-	-	5.08mm	Weidmuller	281-1435-ND	Yes	Yes