



Bill of Materials for the NCL30073LED1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVcc	1	Aluminum Electrolytic Capacitors	10uF 100V	±20%	-	Digikey	1189-2150-ND	Yes	Yes
Cout	1	Aluminum Electrolytic Capacitors	1000uF 50V	±20%	-	Digikey	4603PHBK-ND	Yes	Yes
C4	1	-	390nF 250V	-	-	Faratronic	C252E394-40****+++	Yes	Yes
C6	1	-	150nF 250V	-	-	Faratronic	C252E154-20****+++	Yes	Yes
C7	1	Capacitor	1uF 50V	±10%	-	Digikey	311-1886-1-ND	Yes	Yes
C8	1	Capacitor	10nF	±10%	-	Digikey	311-1085-1-ND	Yes	Yes
C9	1	Capacitor	2.2nF	±20%	-	Digikey	490-7889-1-ND	Yes	Yes
Dout	1	Diode	MURS240T3G	-	-	On Semiconductor	MURS240T3G	No	Yes
D4	1	Bridge Rectifier	MB6S	-	-	Digikey	MB6S-TPMST-ND	Yes	Yes
D9	1	DIODE ARRAY GP 250V 200MA	BAS21DW5T1G	-	SC-88A	On Semiconductor	BAS21DW5T1G	No	Yes
D10	1	Surface Mount Ultrafast Power Rectifier	MURA160T3G	-	-	On Semiconductor	MURA160T3G	No	Yes
D11	1	DIODE ZENER	1SMB5956B	±5%	-	On Semiconductor	1SMB5956B	No	Yes
F2	1	Fuse	0A5	-	-	Digikey	F1999CT-ND	Yes	Yes
L1	1	Fixed Inductor	4.7mH	±5%	-	Digikey	732-3790-ND	Yes	Yes
Q1	1	MOSFET N-CH	NDD60N900U1T4G	-	-	On Semiconductor	NDD60N900U1T4G	No	Yes
RV1	1	VARISTOR 220V 400A DISC 5MM	MOV 130V	-	-	Digikey	F3049-ND	Yes	Yes
Rdamp	1	Through Hole Resistor	220	±5%	-	Digikey	220W-2-ND	Yes	Yes
Rsens	1	Resistor	1.13	±1%	-	Digikey	311-1.13FRCT-ND	Yes	Yes
Rtco	1	THERMISTOR	680 PTC	±50%	-	Digikey	495-4312-1-ND	Yes	Yes
R24	1	Resistor	220k	±1%	-	Digikey	311-220KFRCT-ND	Yes	Yes
R27	1	Resistor	10k	±1%	-	Digikey	311-10.0KHRCT-ND	Yes	Yes
R29	1	Resistor	412k	±1%	-	Digikey	311-412KFRCT-ND	Yes	Yes
R30	1	Resistor	10	±1%	-	Digikey	311-10.0FRCT-ND	Yes	Yes
R31	1	Chip Resistor - Surface Mount	10k	±1%	-	Digikey	311-10.0KFRTR-ND	Yes	Yes
R32	1	Resistor	220	±1%	-	Digikey	311-220CRCT-ND	Yes	Yes
T1	1	Transformer	XFRM_LINEAR	-	-	Würth	750316146	Yes	Yes
U2	1	IC	NCL30073	-	-	On Semiconductor	NCL30073	No	Yes