



Bill of Materials for the NCP1014LEDGTGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Capacitor	100nF, 275VAC	20%	Radial	Panasonic	ECQ-U2A104ML	Yes	Yes
C2	1	Capacitor	220nF, 275VAC	20%	Radial	Panasonic	ECQ-U2A224ML	Yes	Yes
C3	1	Capacitor	1.5nF, 1KV	10%	Radial	Murata	DEBB33A152KA2B	Yes	Yes
C4	1	Capacitor	100nF, 25V	10%	0603 SMD	Panasonic	ECJ-1VF1H104Z	Yes	Yes
C5	1	Capacitor	2.2uF, 50V	20%	Radial	Panasonic	EEU-EB1H2R2S	Yes	Yes
C6	1	Capacitor	47uF, 16V	20%	Radial	Panasonic	ECA-1CM470	Yes	Yes
C7	1	Capacitor	2.2nF, 250VAC	20%	Radial - Disc	TDK Corp	CD12-E2GA222MYNS	Yes	Yes
C8 C9	2	Capacitor	1000uF, 25V	20%	10.00mm x 20.00mm	Panasonic	ECA-1EM102	Yes	Yes
C10	1	Capacitor	10nF, 50V	10%	0603 SMD	Panasonic	ECJ-1VB1H103K	Yes	Yes
D1 D2 D3 D4	4	Rectifier	1000V,1A	-	SMA	ON Semiconductor	MRA4007T3	No	Yes
D5	1	Rectifier	600V,1A	-	SMA	ON Semiconductor	MURA160T3	No	Yes
D6	1	Rectifier	100V, 200mA	-	SOT-23	ON Semiconductor	MMBD914LT1	No	Yes
D7	1	Rectifier	200V,3A	-	SMC	ON Semiconductor	MURS320T3	No	Yes
D8	1	Zener Diode	18V,225mW	-	SOT-23	ON Semiconductor	BZX84C18LT1G	No	Yes
D9	0	(For dimming)	-	-	-	-	-	Yes	Yes
E1 E2	0	Terminal Test point	Not Used	-	-	Kobiconn	151-103-RC	Yes	Yes
J1	1	Screw terminal	-	-	10.00mm x 5.08mm	Weidmuller	1716020000	Yes	Yes
J2	1	Header	1 row, 6 pin	-	15.26mm x 8.13mm	Tyco	535676-5	Yes	Yes
L1	1	Inductor	2.7mH	10%	9.5mm Diameter	Coilcraft	RFB0810-272L	Yes	Yes
Q1	1	Transistor, PNP	45V,100MA	-	SOT-23	ON Semiconductor	BC857BLT1G	No	Yes
Q2	1	Transistor, NPN	65V,100MA	-	SOT-23	ON Semiconductor	BC846BLT1G	No	Yes
R1	1	Fusible resistor	4R7, 0.5W	5%	2.5mm Diameter	Vishay	NFR25H0004708JR500	Yes	Yes
R2	1	Resistor	47K, 1W	5%	2.5mm Diameter	Vishay	PR01000104702JR500	Yes	Yes
R3	1	Thin Film Chip Resistor	1.5K, 1/10W	1%	SMD 0603	Panasonic	ERJ-3EKF1501V	Yes	Yes
R4	1	Thin Film Chip Resistor	200R, 1/10W	1%	SMD 0603	Panasonic	ERJ-3EKF2000V	Yes	Yes
R5	1	Thin Film Chip Resistor	2.2K, 1/10W	1%	SMD 0603	Panasonic	ERJ-3EKF2201V	Yes	Yes
R6 R7	2	Thin Film Chip Resistor	1R8, 1/4W	1%	SMD 1206	Vishay	CRCW12061R80FKEA	Yes	Yes
R8	1	Thin Film Chip Resistor	10R, 1/4W	1%	SMD 1206	Vishay	CRCW120610R0FKEA	Yes	Yes
R9	0	Not Used	-	-	-	-	-	Yes	Yes
R10	1	Thin Film Chip Resistor	10K, 1/4W	5%	SMD 1206	Rohm	MCR18EZPJ103	Yes	Yes
R11	1	Thin Film Chip Resistor	100R, 1/10W	1%	SMD 0603	Panasonic	ERJ-3EKF1000V	Yes	Yes
R12	0	(For dimming)	-	-	-	-	-	Yes	Yes
R13	0	(For dimming)	-	-	-	-	-	Yes	Yes
R14	0	(For dimming)	-	-	-	-	-	Yes	Yes
R15	0	(For dimming)	-	-	-	-	-	Yes	Yes
T1	1	Transformer	-	-	20.30mm x 17.80mm	ICE Components Wurth-Midcom	TO09035 750811041	Yes	Yes
U1	1	IC,CUR MODE CONT	100KHz	-	SOT-223	ON Semiconductor	NCP1014ST100T3G	No	Yes
U2	1	OPTOCOPLER,TRAN O/P	80V, 50mA	-	4-SMD	NEC ELECTRONICS	PS2561L-1-A	Yes	Yes