



Bill of Materials for the NCP1421LEDGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Boost Converter	-	-	Micro8	ON Semiconductor	NCP1421DMR2G	No	Yes
D1/D2	1	High Power White LED	-	-	-	Lumiled	LXHL-BW01/2	Yes	Yes
L1	1	SMD Inductor	6.8 uH, 1.6 A	20%	5.8x6.2x1.4mm	TDK	VLP6214T-6R8M1R2	Yes	Yes
C1	1	Ceramic Chip Capacitor	220nF	10%	0603	TDK	C1608X5R1C224MT	Yes	Yes
C2, C3	2	Ceramic Chip Capacitor	22 uF, 6.3 V	20%	0805	TDK	C2012X5R0J226M	Yes	Yes
C4	0	Ceramic Feedforward Cap	DNP	-	-	-	-	Yes	Yes
R1, R3	2	Chip Resistor	100 kOhm	1%	0805	Yageo-America	RC0805FR-07100KL	Yes	Yes
R2	1	Chip Resistor	475 kOhm	1%	0805	Yageo-America	RC0805FR-07475KL	Yes	Yes
RS	1*	Chip Resistor	1.0 Ohm, 1.0 W	1%	1218*	Vishay	CRCW12181R00FT	Yes	Yes
J1	1	4MM PCB Socket, Black	-	-	-	Deltron Emcon	571-0100	Yes	Yes
J2	1	4MM PCB Socket, Red	-	-	-	Deltron Emcon	571-0500	Yes	Yes
J3	1	Header Pins, 3 Positions	1" Pitch	-	-	TYCO Electronics/AMP	4-103239-0	Yes	Yes
J4 - J5	2	Header Pins, 1 Position	1" Pitch	-	-	TYCO Electronics/AMP	4-103239-0	Yes	Yes
J3	1	Jumper, 2 Positions	1" Pitch	-	-	Sullins Electronics	SPC02SYAN	Yes	Yes
J6	1	Un-insulated Plug	-	-	10.16x9.0 mm	Harwin	D3082-05	Yes	Yes

* (2) 1206, 2 Ohm resistors were placed in parallel on this board