

ON Semiconductor



Bill of Materials for the NCP1422LED Evaluation Board

7/16/2009

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	RoHS Compliant
U1	1	NCP1422 Boost Converter	-	-	DFN-10 (3X3 mm)	ON Semiconductor	NCP1422MNR2G	No	Yes
D1	1	Lumiled High Power White LED	-	-	(1.64x2.04 x0.9 mm)	Lumiled	LXCL-PWF1	No	Yes
Q1	1	Torch/Flash Switch	-	-	SC-88	ON Semiconductor	NTJS3157NT4G	No	Yes
L1	1	Inductor	6.8uH, 800mA	20%	(5.6x5.0x1.0 mm)	TDK	VLP5610T-6R8MR80	No	Yes
C1, C2	2	Ceramic Capacitor	22uF, 6.3V X5R	20%	0805	TDK	C2012X5R0J226M	Yes	Yes
C3	1	Ceramic Capacitor	470nF, 6.3V X5R	10%	0402	TDK	ECJ-0EB0J474K	Yes	Yes
R1	1	Resistor	665kΩ	1%	0402	Vishay	CRCW0402665KFKED	Yes	Yes
R2, R6, R7	3	Resistor	100kΩ	1%	0402	Vishay	CRCW0402100KFKED	Yes	Yes
R3	2	Resistor (1.33 Ω)* 2-2.67 Ω resistors were used in parallel	2.67Ω	1%	1206	Vishay	CRCW12062R67FKED	Yes	Yes
R4	1	Resistor	6.65Ω	1%	1206	Vishay	CRCW12066R65FKED	Yes	Yes
R5	1	Resistor	1.0kΩ	Any	0402	Vishay	CRCW04021K00FKED	Yes	Yes
R8	1	Resistor	10kΩ	Any	0402	Vishay	CRCW040210K0FKED	Yes	Yes
GND	1	Ground Shunt	-	-	-	Harwin	D3082-05	Yes	Yes
VIN, GND	2	Post, 3 position, 0.1" spacing	-	-	-	Molex	90120-0160	Yes	Yes
FLASH, SNS, ENABLE	3	Post, 2 position, 0.1" spacing	-	-	-	Molex	90120-0161	Yes	Yes