



Bill of Materials for the NCL30160GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	LED Driver	-	-	SOIC-8	ON Semiconductor	NCL30160	No	Yes
L1	1	Inductor, 100 uH	100 uH	±20%	7.30mm x 7.30mm	Würth	744777920	Yes	Yes
R1	1	ROT resistor - 59.0k ohm	59.0 kΩ	±1%	0603	(No preference)	-	Yes	Yes
R2	1	Rsense - 0.68 ohm	0.68 Ω	±1%	1206	(No preference)	-	Yes	Yes
C1	1	Vcc bypass cap	2.2 uF, 10 V	±10%	0603	TDK	C1608X7R1A225K	Yes	Yes
C2	1	Input capacitor	4.7 uF, 50 V	±20%	1210	TDK	C3225X7R1H475M	Yes	Yes
C3	0	-	Do Not Place	-	-	-	-	Yes	Yes
D1	1	Catch Diode	1 A, 40 V	-	SOD123-2	ON Semiconductor	MBRM140SFT1	Yes	Yes
J1 - J5	5	Printed Circuit Pin - 0.070" diameter	-	-	-	Mill-Max	6821-0-00-15-00-00-08-0	Yes	Yes
J6	1	Connector (LED) - 6 pin, 0.100" pitch	-	-	-	TE Connectivity	5535676-6	Yes	Yes