



Bill of Materials for the NCP5030MTTXG Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C101	1	Ceramic chip capacitor	330 pF, 50 V	5%	0603	TDK	C1608C0G1H331J	Yes	Yes
C102	1	Ceramic chip capacitor	22 pF, 50 V	5%	0603	TDK	C1608C0G1H220J	Yes	Yes
C103	1	Ceramic chip capacitor	22 uF, 6.3 V	20%	0805	TDK	C2012X5R0J226M	Yes	Yes
C104	1	Ceramic chip capacitor	1 uF, 6.3 V	20%	0603	Murata	GRM188R60J105MA01D	Yes	Yes
C105	1	Ceramic chip capacitor	10 uF, 6.3 V	20%	0805	TDK	C2012X5R0J106M	Yes	Yes
L101	1	Chip wire magnetic shielded inductor	4.7uH	20%	4.5mm x 4.7mm 6.8mm x 7.3mm	TDK	VLF5014AT-4R7M1R1 RLF7030T-4R7M3R4	No	Yes
R101	1	Chip resistor	100 kΩ	5%	0603	Yageo	RC0603JR-07100KL	Yes	Yes
R102	0	Not Mounted	-	-	0805/1206	-	-	-	-
R103,R104	2	Chip resistor	0.51 Ω	1%,1/4W	0805	Susumu	RL1220S-R51-F	Yes	Yes
R105	1	Chip resistor	1 Ω	1%,1/8W	0805	Yageo	RC0805FR-071RL	Yes	Yes
R106	1	Chip resistor	2.2 Ω	1%,1/8W	0805	Yageo	RC0805FR-072R2L	Yes	Yes
R107	1	Chip resistor	39 kΩ	5%	0603	Yageo	RC0603JR-0739KL	Yes	Yes
R108	1	Chip resistor	82 kΩ	5%	0603	Yageo	RC0603JR-0782KL	Yes	Yes
TP101-TP104	4	PCB terminal 1mm	-	-	1 mm	Keystone	5000	Yes	Yes
U101	1	Buck-Boost driver for high power flash LED	-	-	WDFN12	ON Semiconductor	NCP5030MTTXG	No	Yes
J101	1	Header X 2	-	-	SL5.08/2/90	Phoenix Contact	1757242	Yes	Yes
J102,J106	2	Header 3 pin, 0.1 inch spacing	-	-	0.100 x 3	Tyco AMP	5-826629-0	Yes	Yes
J103,J104,J105,J111	4	Header 2 pin, 0.1 inch spacing	-	-	0.100 x 2	Tyco AMP	5-826629-0	Yes	Yes
J107	1	3 x AA Battery holder	-	-	1.84mm x 2.25mm	MPD	BH3AA-PC	No	Yes
J108	1	Header 6	-	-	0.100 x 6	AMP	5535676-5	No	Yes
J109	1	Header 2 x 5 0.1 inch spacing	-	-	0.100 x 2 x 5	Tyco AMP	1241148-5	Yes	Yes
J110	1	GND jumper	-	-	0.4	Harwin	D3082-46	Yes	Yes
D101	1	LXCL-PWT1	-	-	2.0mm x 1.6mm	Lumileds	LXCL-PWT1	No	Yes
D102	1	Lambertian LED modules	LUXEON I LUXEON III	-	Lambertian	Lumileds	LXHL-PW01 LXHL-PW09	Yes Yes	Yes Yes