



Bill of Materials for the NCP5680MUTXGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C101	1	Ceramic chip capacitor	10uF	20%	0805	TDK	C2012X5R0J106M	Yes	Yes
C102, C103	2	Ceramic chip capacitor	0.22uF	20%	0805	TDK	C2012X5R1H224M	Yes	Yes
C104, C107	2	Ceramic chip capacitor	47uF	20%	1206	TDK	C3216X5R0J476M	Yes	Yes
C105	1	Ceramic chip capacitor	0.55mF	20%	39mm x 17mm	TDK or Cap-XX	EDLC272020-501-2F-50(E) or HS206F	No	Yes
C106	1	Ceramic chip capacitor	0.1uF	20%	0603	TDK	C1608X5R1H104M	Yes	Yes
C108, C110	2	Ceramic chip capacitor	1uF	20%	0603	TDK	C1608X5R1A105M	Yes	Yes
R101	1	Chip resistor	0.51Ω	5%	0805/1206	Std.	Std.	Yes	Yes
R102, R103	2	Chip resistor	0.1Ω	5%	0805/1206	Std.	Std.	Yes	Yes
R104	1	Chip resistor	20kΩ	5%	0603	Std.	Std.	Yes	Yes
R105	1	Chip resistor	22kΩ, NTC	1%	0603	Murata or TDK	NCP18XW223F03RB or NTCG104BH222JB	Yes	Yes
R106, R107, R108	3	Chip resistor	10kΩ	5%	0603	Std.	Std.	Yes	Yes
R109	2	Chip resistor (Not mount)	0Ω	5%	0603	Std.	Std.	Yes	Yes
U105	1	Super Cap based LED flash driver	-	-	UQFN24, 3.5mm x 3.5mm	ON Semiconductor	NCP5680MUTXG	No	Yes
U102, U103	2	N-MOSFET	-	-	WDFN, 2mm x 2mm	ON Semiconductor	NTLJS4114N	No	Yes
U104	1	P-MOSFET	-	-	WDFN, 2mm x 2mm	ON Semiconductor	NTGS3433P	No	Yes
D101, D102	2	Flash White LED	-	-	-	Lumileds or OSRAM	LXCL-PWF4 or OSLUX-LWW5AP	No	Yes
Q101	1	Photo sensor	-	-	-	OSRAM	SFH3410Z	No	Yes
J101	1	Header (x 2)	-	-	SL5.08/2/90	Weidmüller	SL 5.08/2/90B	Yes	Yes
J102	2	Button	-	-	Button Switch	SCHURTER	1301.9312	Yes	Yes
J103	4	Header 26 pin, 0.1 inch spacing	-	-	IDC26	3M	N2526-6002RB	Yes	Yes
J104	1	GND jumper 400mil spacing	-	-	0.4mm spacing	Harwin	D3082F05	Yes	Yes
TP101, TP102, TP103, TP104, TP105, TP106, TP107, TP108	8	PCB terminal 1mm test point	-	-	Standard 1mm	Std.	Std.	Yes	Yes