



Bill of Materials for the NCP12700POE45WUSBPDGEVB Daughter Card Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C46	1	SMT Ceramic Capacitor	680pF	25V	402	Kemet	C0402C681G5GACTU	Yes	Yes
C4	1	SMT Ceramic Capacitor	DNI		402			Yes	Yes
C37 C44	2	SMT Ceramic Capacitor	4.7nF	50V	402	TDK	CGA2B2X7R1H472K050BE	Yes	Yes
C30	1	SMT Ceramic Capacitor	1.0uF	35V	603	Samsung	CL10A105KL8NNNC	Yes	Yes
R32	1	SMT Resistor	10R		402	Vishay	CRCW040210R0FKED	Yes	Yes
R21	1	SMT Resistor	120k		402	Vishay	CRCW0402120KJNED	Yes	Yes
R34	1	SMT Resistor	13k		402	Vishay	CRCW040213K0JNED	Yes	Yes
R40 R42	2	SMT Resistor	10R		402	Vishay	CRCW040210R0FKED	Yes	Yes
R39	1	SMT Resistor	100k		402	Yageo	RC0402FR-07100KL	Yes	Yes
R53	1	SMT Resistor	100k		402	Yageo	RC0402FR-07100KL	Yes	Yes
R25	1	SMT Resistor	10k		402	Vishay	CRCW040210K0FKEDC	Yes	Yes
R35	1	SMT Resistor	82.5k		402	Vishay	CRCW040282K5FKEDC	Yes	Yes
R47	1	SMT Resistor	1k		402	Vishay	CRCW04021K00FKTD	Yes	Yes
J2 J4 J6	3	DAUGHTER BOARD PAD	NA		2X3mm	NA	NA	Yes	Yes
U1	1	Secondary Side Controller			QFNW20	ON Semiconductor	FUSB3307	No	Yes
C48	1	SMT Capacitor	1nF	50V	402	Yageo	CC0402JRX7R9BB102	Yes	Yes
C34-35	2	SMT Ceramic Capacitor	390pF	50V	402	Murata	GRM1555C1H391JA01J	Yes	Yes
Q3	1	MOSFET, N-CH, 30V, 35A			Power33	ON Semiconductor	FDMC012N03	No	Yes
R31	1	SMT Resistor	40R2		805	Yageo	AC0805FR-0740R2L	Yes	Yes
D1-2 D6 D10	4	TVS	7V		X2DFN2	ON Semiconductor	NSPU3051N2T5G	No	Yes
C21	1	SMT Ceramic Capacitor	1uF	35V	603	AVX	0603DD105KAT2A	Yes	Yes
CON1	1	USB 3.1 TYPE C RECEPTACLE	NA		THT/SM	Wurth	6.32723E+11	Yes	Yes
R26	1	SMT Sense Resistor	5mOhm		1206	Visahy	WSLP12065L000FEA	Yes	Yes