



Bill of Materials for the NCP1365XS1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C8	1	Capacitor, Ceramic, 10%	0.1uF,50V	10%	603	std	Std	Yes	Yes
C6	1	Capacitor, Ceramic, 10%	1000pF,50V	10%	603	std	Std	Yes	Yes
C9	1	Capacitor, Ceramic, 10%	100pF,50V	10%	603	std	Std	Yes	Yes
C10	1	HV Ceramic Capacitor,safety standard approved, 10%	100pF,Y1	10%	Lead type	TDK	CS65-B2GA101KYNKA	Yes	Yes
C12	1	Capacitor, Ceramic, 10%	10pF,50V	10%	603	std	Std	Yes	Yes
C11	1	Capacitor, Ceramic, 10%	33nF,50V	10%	603	std	Std	Yes	Yes
C4	1	Capacitor, Ceramic, Chip, 10%	4.7uF,25V	10%	805	TDK	C2012X7R1E475K	Yes	Yes
C7	1	Capacitor, Ceramic, Chip, 5%	470pF,630V	5%	1206	TDK	C3216C0G2J471J	Yes	Yes
D1	1	Bridge Rectifier, 600V, 1A	1A,600V	-	Micro-DIP	FSC/Others	LMB6S	Yes	Yes
D2	1	Schottky Rectifier, 20A, 45V/30A,50V	20A,45V	-	SO8FL	ON/ST	MBR2045MFS/FERD30S50	No	Yes
D5	1	Standard Rectifier, 1A, 600V	1A,600V	-	POWERD123	Diodes	DFLR1600	Yes	Yes
D4 D6	2	Switching diode, SMD	0.2A,200V	-	SOD323	ON	BAS20HT1G	No	Yes
T1	1	Core: E116/12/8, customized bobbin, 10pin	-	-	TH type	Customized transformer	E116/12/8	Yes	Yes
FR1	1	Micro fuse, 1.6A,250V	1.6A,250Vac	-	Axial lead	Hollyfuse	20T-016H	Yes	Yes
U1	1	PSR Controller with HV Startup Source, SO8	-	-	SO8	ON	NCP1365BBCC	No	Yes
Q1	1	NMOS, 6A, 600V, IPAK	6A, 700V	-	IPAK	SAMWIN	SW6N70	Yes	Yes
NTC	1	NTC, 2.5ohm,3A	2.5ohm	-	lead type	Sunlord	SPNL07D2R5MBI	Yes	Yes
L1	1	Axial leaded fixed inductor	220uH	-	-	Würth	7447462221	Yes	Yes
R8	1	Resistor, Chip, 1/5W, 1%	100K	1%	805	Std	Std	Yes	Yes
R10	1	Resistor, Chip, 1/8W, 1%	1K	1%	603	Std	Std	Yes	Yes
R4	1	Resistor, Chip, 1/8W, 1%	22	1%	603	Std	Std	Yes	Yes
R9	1	Resistor, Chip, 1/8W, 1%	30.9K	1%	603	Std	Std	Yes	Yes
R15	1	Resistor, Chip, 1/8W, 1%	47	1%	603	Std	Std	Yes	Yes
R19	1	Resistor, Chip, 1/8W, 1%	82k	1%	603	Std	Std	Yes	Yes
R2	1	Resistor, Chip, 1/8W, 1%,	NA	1%	603	Std	Std	Yes	Yes
R12	1	Resistor, Chip, 1/5W, 1%	1.6	1%	805	Std	Std	Yes	Yes
R13	1	Resistor, Chip, 1/5W, 1%	1.8	1%	805	Std	Std	Yes	Yes
R3	1	Resistor, Chip, 1/4W, 1%	150	1%	1206	Std	Std	Yes	Yes
R7	1	Resistor, Chip, 1/5W, 1%	20	1%	805	Std	Std	Yes	Yes
R6	1	Resistor, Chip, 1/4W, 1%	330k	1%	1206	Std	Std	Yes	Yes
R14	1	Resistor, Chip, 1/8W, 1%	1.6k	1%	603	Std	Std	Yes	Yes
R18	1	Resistor, Chip, 1/8W, 1%	1M	1%	603	Std	Std	Yes	Yes
C1-2	2	size,10mmx12.5mm	10uF,400V	-	10mm(die.)x12.5mm(hight)	Rubycon/TEAPO	AX/KSH106M400T1Z5H1CK	Yes	Yes
C3 C5	2	size, 6.3mmx8mm	470uF,6.3V	-	6.3mm(die.)x8mm(hight)	TEAPO	PCH477M6R3S1AGE08K	Yes	Yes
J1	1	USB connector, Type a	-	-	-	std	std	Yes	Yes