

ON Semiconductor



Bill of Materials for the NCP1013ADAPEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
IC1	1	Opto Coupler, SMD	-	-	5.08 x 7.62 x 6.5 mm	Isocom	SFH615A-2	Yes	Yes
IC2	1	Adjustable Shunt Regulator	1.24-16 V, 0.05-	1%	TO92	ON Semiconductor	TLV431ALP	No	Yes
IC3	1	Monolithic Switcher	-	-	DIP7	ON Semiconductor	NCP1013AP065G	No	Yes
R2	1	Thru Hole Resistor	3.3 k Ω , 1/4 W	5%	Axial Lead	Yageo America	CFR-25JR-3K3	Yes	Yes
R3	1	Surface Mount Resistor	1 k Ω , 1/4 W	5%	1206	Yageo America	RC1206JR-071KL	Yes	Yes
R5	1	Thru Hole Resistor	39 k Ω , 1/4 W	1%	Axial Lead	Vishay	CCF5539K0FKR36	Yes	Yes
R6	1	Surface Mount Resistor	4.3 k Ω	1%	1206	Vishay	CRCW12064320FKTA	Yes	Yes
R7	1	Thru Hole Resistor	150 k Ω	5%	Axial Lead	Vishay	2322 194 13154	Yes	Yes
R_L3	1	Thru Hole Resistor	22 Ω , 1/4 W	1%	Axial Lead	Vishay	CCF5522R0FK	Yes	Yes
L1	1	Current-Compensated Chokes	2 x 15 mH	-	-	Schaffner	RN 112-0.6/02	No	Yes
L2	1	Filter Choke, LC filter	10 μ H, 2.6 A	20%	-	Würth Electronics Inc	744 772 100	No	Yes
B1	1	Ultrafast Rectifier	800 V, 1 A	-	DIP4	Vishay Semiconductors	DF08M	No	Yes
D2	1	Schottky Rectifier	60 V, 3 A	-	SMC	ON Semiconductor	MBR5360T3	No	Yes
D3	1	Ultrafast Rectifier	600 V, 1 A	-	Axial Lead	ON Semiconductor	MUR160	No	Yes
D4	1	Fast Switching Diode	100 V, 2 A	-	Axial Lead	Vishay	1N4148	Yes	Yes
C1	1	Film Capacitor, X2	220 nF	10%	Radial	Vishay	2222 335 5224	Yes	Yes
C2	1	Electrolytic Capacitor	47 μ F, 400 V	20%	Radial	Panasonic	ECA2GM470	Yes	Yes
C3,C7	2	Electrolytic Capacitor	47 μ F, 16 V	20%	Radial	Panasonic	ECA1CM470	Yes	Yes
C4	1	Ceramic Chip Capacitor	100 nF, 25V	10%	1206	Vishay	VJ1206Y105KXXAT	Yes	Yes
C5	1	Ceramic AC Capacitor, Y1	2.2 nF, 500 V	20%	Disc	Vishay	WKP222MCMBFOK	Yes	Yes
C6a,C6b	2	Electrolytic Capacitor	470 μ F, 16 V	20%	Radial	Panasonic	ECA1CM471	Yes	Yes
C8	1	Polyester Film Capacitor	2.2nF, 400V	5%	Box	Arcotronics	R82MC1220DQ02J	Yes	Yes
C9	1	Ceramic Chip Capacitor	1 nF, 16 V	10%	1206	Vishay	VJ1206Y102KXJAT	Yes	Yes
C10	1	Electrolytic Capacitor	47 μ F, 35V	20%	Radial	Panasonic	ECA1VM470	Yes	Yes
T1	1	Flyback Transformer	3.2 mH, 6 W	10%	-	Coilcraft	A9619-CL	No	Yes
J1	1	Connector, Mains Inlet	-	-	-	Bulgin	PX0786/PC	Yes	Yes
J2	1	Connector, 12V output	-	-	-	LMI	L145202010002	Yes	Yes
J3	1	Connector	-	-	-	Kontek	4710334140400	Yes	Yes
JP1	1	Jumper Shunts	-	-	-	ANY	NA	Yes	Yes
Feet	4	Board Feet	9.5 mm	-	-	Richco	LCBS-TF-M4-6-01	Yes	Yes
Strap +	1	Insulated Jumper Wire	-	-	-	ANY	-	Yes	Yes