



## Bill of Materials for the NCP1072DIPGEVB 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	2.5 V	±1%	TO92	ON Semiconductor	NCP431ACLPRAG	No	Yes
IC3	1	Monolithic Switcher	-	-	DIP7	ON Semiconductor	NCP1072AP100G	No	Yes
R2	1	Thru Hole Resistor	1.5 kW, 1/4 W	±1%	Axial Lead	Vishay	CCF501K50FKR36	Yes	Yes
R3	1	Surface Mount Resistor	1 kW, 1/4 W	±1%	1206	Vishay	CRCW12061K00FKTA	Yes	Yes
R5	1	Thru Hole Resistor	82.5 kW, 1/4 W	±1%	Axial Lead	Vishay	CCF5082K5FKR36	Yes	Yes
R6	1	Surface Mount Resistor	21.5 kW	±1%	1206	Vishay	CRCW120621K5FKTA	Yes	Yes
R7	1	Thru Hole Resistor	150 kW	±5%	Axial Lead	Vishay	2322 194 13154	Yes	Yes
R-L3	1	Thru Hole Resistor	20 W, 1/4 W	±1%	Axial Lead	Vishay	CCF50020RFKR36	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 µH, 2.6 A	±20%	-	Würth Electronics Inc	744 772 100	No	Yes
B1	1	Ultrafast Rectifier	800 V, 1 A	-	DIP4	Vishay	DF08M	No	Yes
D2	1	Schottky Rectifier	60 V, 3 A	-	SMC	ON Semiconductor	MBRS360T3	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	EPCOS	B32923C3224M	Yes	Yes
C2	1	Electrolytic Capacitor	47 µF, 400 V	±20%	Radial	Panasonic	ECA2GM470	Yes	Yes
C7	1	Electrolytic Capacitor	47 µF, 16 V	±20%	Radial	Panasonic	ECA1CM470	Yes	Yes
C3a, C4	2	Ceramic Chip Capacitor	100 nF, 25 V	±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 µF, 16 V	±20%	Radial	Panasonic	ECA1CM471	Yes	Yes
C8	1	Polyester Film Capacitor	2.2 nF, 400 V	±5%	Box	Arcotronics	R82MC1220DQ02J	Yes	Yes
C9	1	Ceramic Chip Capacitor	10 nF, 16 V	±10%	1206	Vishay	VJ1206Y103KXJAT	Yes	Yes
C10	1	Electrolytic Capacitor	47 µF, 35 V	±20%	Radial	Panasonic	ECA1VM470	Yes	Yes
T1	1	Flyback Transformer	3.4 mH, 10 W	±10%	-	Coilcraft	MA5597-AL	No	Yes
J1	1	Connector, Main Inlet	-	-	-	Bulgin	PX0786/PC	Yes	Yes
J2	1	Connectr, 12 V output	-	-	-	LMI	L145202010002	Yes	Yes
J3	1	Connector, Main Inlet	-	-	-	Kontek	4.71033E+12	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