



Bill of Materials for the NCP1342PD45WGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C9	1	Capacitor, Ceramic, 50V, 10%	102	10%	603	WE	/885012207116	Yes	Yes
C26	1	Capacitor, Ceramic, SMD, 5%	104,400V	10%	1206	TDK	C3216X7T2W104K	Yes	Yes
C18	1	Capacitor, Ceramic, 50V, 10%	10nF	10%	603	WE	/885012006051	Yes	Yes
C28 C30	2	Capacitor, Ceramic, 50V, 10%	1nF	10%	603	WE	/885012206083	Yes	Yes
C12	1	Capacitor, Ceramic, SMD, 5%	1nF,100v	10%	603	TDK	C1608C0G2A102J	Yes	Yes
C8	1	Capacitor, Ceramic, 100V, 10%	1uF,100v	10%	805	TDK	C2012X7S2A105K	Yes	Yes
C7 C15-17 C24 C27	5	Capacitor, Ceramic, 25V, 10%	1uF,25V	10%	603	WE	/885012206076	Yes	Yes
C21	1	Capacitor, Ceramic, 100V, 10%	2.2uF,100v	10%	1206	TDK	C3216X7S2A225K	Yes	Yes
C25	1	X2 capacitor, Safety standard approved, 10%	224,X2	10%	THT, 10mm, 13mmx6mmx12mm	WE	/890324023028	Yes	Yes
C11 C23	2	Capacitor, Ceramic, 50V, 10%	390pF	10%	603	std	std	Yes	Yes
C4	1	Capacitor, Ceramic, 35V, 10%	4.7uF,35v	10%	805	TDK	C2012X7R1V475K	Yes	Yes
C3	1	Capacitor, Ceramic, Chip, 5%	470pF,630V	5%	1206	TDK	C3216C0G2J471J	Yes	Yes
C10	1	HV Ceramic Capacitor,safety standard approved, 10%	470pF,Y1	10%	Lead type	TDK	CS65-B2GA101KYNKA	Yes	Yes
C19 C22	2	Capacitor, Ceramic, 50V, 10%	68nF	10%	603	WE	/885012206094	Yes	Yes
C6	1	Capacitor, Ceramic, 50V, 5%	68pF	5%	603	WE	/885012006056	Yes	Yes
C20	1	Capacitor, Ceramic, 50V, 10%	NC	10%	603	std	Std	Yes	Yes
D1 D3	2	Bridge Rectifier, 600V, 1A	1A,600V		Micro-DIP	FSC	MDB65	Yes	Yes
DNR	1	Varistor, 10D471K	10D471K		TH type	WE	820573011	Yes	Yes
D1 D7 D10-11	4	Switching diode, SMD	0.2A,250V		SOD323	ON	BAS21HT1G	No	Yes
D16	1	NC	0.2A,250V		SOD323	ON	NC	No	Yes
D6	1	Switching diode, SMD	0.2A,300V		SOD323	Vishay	GSD2004WS	Yes	Yes
D4	1	Switching diode, SMD	0.2A,30V		SOD323	ON	BAT54HT1G	No	Yes
D5	1	Standard Rectifier, 0.8A, 600V	0.8A,600V		SOD123FL	ON(FSC)	US1JFA	No	Yes
D12-13	2	Standard Rectifier, 0.8A, 600V	0.8A,600V		SOD123FL	ON(FSC)	RS1JFA	No	Yes
D8	1	Switching diode, SMD	0.2A,250V		SOD323	ON	BAS21HT1G	No	Yes
FB	1	1000ohm@100MHz			805	Sunlord/Wueth	UPZ2012E102-1R5TF/742792096	Yes	Yes
FB1	1	600ohm@100MHz			805	Sunlord/Wueth	UPZ2012E601-2R0TF/742792040	Yes	Yes
L3	1	CM Filter, T type core	10mH		TH type	WE	744821110	Yes	Yes
L1	1	T type, 6.3x3x3, 11T, 0.2mmx2 in parallel winding	500uH		TH type	Würth-Midcon	150-1327	Yes	Yes
F1	1	Micro Fuse, 1.6A/250V	1.6A,250Vac		Axial lead	Hollyfuse	20T-016H	Yes	Yes
Q4	1	General NPN Transistor, SMD			SOT23	ON	MMBTA06LT1G	No	Yes
Q6	1	NC			SOT23	ON	NC	No	Yes

Q7	1	General NPN Transistor, SMD			SOT23	ON	MMBT3904LT1G	No	Yes
Q5	1	General PNP Transistor, SMD			SOT23	ON	MMBT3906LT1G	No	Yes
U3	1	Syn. Rectified Controller			SO8	ON	NCP4306AADZZADR2G	No	Yes
U1	1	QR PWM controller			SOP9	ON	NCP1342AMDAD1R2G	No	Yes
NTC	1	9mm Die, 2.1ohm	1.5ohm		lead type	Sunlord	SPNL09D1R5MBI	Yes	Yes
NTC1	1	NTC	100k		603	Sunlord	SDNT1608X104J4250HTF	Yes	Yes
U4	1	optical coupler, standard SOP package			LSOP4	ON(FSC)	FODM1009	No	Yes
Q8	1	PMOS	8.4mohm		ATPAK	ON	ATP104	No	Yes
L2	1	Axial leaded fixed inductor	47uH		TH type	WE	7447462470	Yes	Yes
Q2	1	MOSFET, NChan, 600V			THINKPAK-8X8	Infineon	IPL60R385CP	Yes	Yes
R6	1	Resistor, Chip, 1/8W, 1%	1	1%	603	Std	Std	Yes	Yes
R9	1	Resistor, Chip, 1/8W, 1%	1.8k	1%	603	Std	Std	Yes	Yes
R34	1	Resistor, Chip, 1/8W, 1%	10	1%	603	Std	Std	Yes	Yes
R13	1	Resistor, Chip, 1/8W, 1%	100K	1%	603	Std	Std	Yes	Yes
R18 R35 R38	3	Resistor, Chip, 1/8W, 1%	10k	1%	603	Std	Std	Yes	Yes
R17	1	Resistor, Chip, 1/8W, 1%	18k	1%	603	Std	Std	Yes	Yes
R3 R21 R22	3	Resistor, Chip, 1/8W, 1%	1K	1%	603	Std	Std	Yes	Yes
R8	1	Resistor, Chip, 1/8W, 1%	20k	1%	603	Std	Std	Yes	Yes
R19 R26-28 R36	5	Resistor, Chip, 1/8W, 1%	22	1%	603	Std	Std	Yes	Yes
R29	1	Resistor, Chip, 1/8W, 1%	3.3k	1%	603	Std	Std	Yes	Yes
R11	1	Resistor, Chip, 1/8W, 1%	300	1%	603	Std	Std	Yes	Yes
R7	1	Resistor, Chip, 1/8W, 1%	300k	1%	603	Std	Std	Yes	Yes
R30	1	Resistor, Chip, 1/8W, 1%	30k	1%	603	Std	Std	Yes	Yes
R33	1	NC	NC	1%	603	Std	Std	Yes	Yes
R10	1	Resistor, Chip, 1/8W, 1%	4.7	1%	603	Std	Std	Yes	Yes
R23	1	Resistor, Chip, 1/8W, 1%	4.7K	1%	603	Std	Std	Yes	Yes
R25	1	Resistor, Chip, 1/8W, 1%	47K	1%	603	Std	Std	Yes	Yes
R32	1	Resistor, Chip, 1/8W, 1%	68K	1%	603	Std	Std	Yes	Yes
R24	1	Resistor, Chip, 1/8W, 1%	75K	1%	603	Std	Std	Yes	Yes
R20	1	Resistor, Chip, 1/8W, 1%	820k	1%	603	Std	Std	Yes	Yes
R37	1	NC	NC	1%	603	Std	Std	Yes	Yes
R15-16	2	NC	NC	1%	603	Std	Std	Yes	Yes
R4-5	2	Resistor, Chip, 1/2W, 1%	0.62	1%	1206	Panasonic	ERJ8BQFR062V	Yes	Yes
R2	1	Resistor, Chip, 1/4W, 1%	10	1%	1206	Std	Std	Yes	Yes
R31	1	Resistor, Chip, 1/5W, 1%	1k	1%	805	Std	Std	Yes	Yes
R12	1	Resistor, Chip, 1/5W, 1%	20	1%	805	Std	Std	Yes	Yes
R1	1	Resistor, Chip, 1/4W, 1%	300k	1%	1206	Std	Std	Yes	Yes
R14	1	Resistor, Chip, 1/2W, 1%	5mohm	1%	1206	Panasonic	ERJ8BWFR005V	Yes	Yes
T1	1	RM8, 12Pin			TH type	WE-midcon	750343635	Yes	Yes
C5	1	size:10mmx16mm	22uF,400V		10X16	CapXon/AiShi	KM series/ERK2GM330F220TH	Yes	Yes
C1-2	2	size:13mmx16mm	33uF,400V		13X16	CapXon	KM series	Yes	Yes
C13 C29	2	size:8mmx16mm	680uF,25V		8mmx16mm	CapXon	PS661M025F080P	Yes	Yes
C14	1	NC	NC		8mmx16mm	NC	NC	Yes	Yes
Q1	1	MOSFET, NChan, 100V			SO8FL	ON	NTMFS6B03NT1G	No	Yes
J1	1	Type C connector, SMT			TH/SMD	WE	632 723 300 011	Yes	Yes
U2	1	PD3.0/QC3.0 protocol controller			SO14	Weltrend	WT6632FSG14BWTS45BDP	Yes	Yes
ZD5	1	GENERIC ZENER-DIODE	10V		SOD323	ON	MM3Z10VT1G	No	Yes
ZD2	1	GENERIC ZENER-DIODE	24V		SOD323	ON	MM3Z24VT1G	No	Yes
ESD1-4	4	ESD protection device	5V		SOD323	ON	SD05T1G	No	Yes
LN	2				TH type	std	std	Yes	Yes
J2	1				TH type	std	std	Yes	Yes