



Bill of Materials for the NCP1340UHDGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Capacitor, Electrolytic	68uF/400V	20%	18mm x 7.5mm(LS)	Rubycon	400BXW68MEFC18X20	No	Yes
C3	1	Capacitor, Electrolytic	100uF/35V	20%	6mm x 2.5mm(LS)	Kemet	ESH107M035AE3AA	Yes	Yes
C2, C7, C16	3	Capacitor, Ceramic, SMD, X7R	0.1uF/50V	10%	0603	Yageo	CC0603KRX7R9BB104	Yes	Yes
C4, C13	2	Capacitor, Ceramic, SMD, X7R	10nF/50V	10%	0603	Vishay Vitramon	VJ0603Y103KXAAAC31	Yes	Yes
C5	1	Capacitor, Ceramic, SMD, X7R	470pF/50V	10%	0603	Yageo	CC0603KRX7R9BB471	Yes	Yes
C8	1	Capacitor, Ceramic, SMD, C0G	56pF/50V	10%	0603	Yageo	CC0603JRNPO9BN560	Yes	Yes
C9	1	Capacitor, Ceramic, SMD, X7R	100pF/50V	10%	0603	Vishay Vitramon	VJ0603Y101KXACW1BC	Yes	Yes
C12	1	Capacitor, Ceramic, SMD, X7R	6.8nF/50V	10%	0603	Kemet	C0603C682K5RACTU	Yes	Yes
C14	1	Capacitor, Ceramic, SMD, X7R	33nF/50V	10%	0603	Yageo	CC0603KRX7R9BB333	Yes	Yes
C15	1	Capacitor, Ceramic, SMD, X7R	1uF/50V	10%	0603	Taiyo Yuden	UMK107AB7105KA-T	Yes	Yes
C6	1	Capacitor, Ceramic, SMD, X7R	220pF/1kV	10%	1206	Kemet	C1206C221KDRACTU	Yes	Yes
C10-11	2	Capacitor, Aluminum Polymer	270uF/25V	20%	8mm x 8mm	Nichicon	PCR1E271MCL1GS	Yes	Yes
CX1	1	Capacitor, Film, X2	470nF/310Vac	10%	7mm x 18mm x 15mm(LS)	Wurth	890324025039CS	No	Yes
CY1	1	Capacitor, Ceramic, X1Y2	2200pF/250VAC	10%	2220	Murata	GA355QR7GF222KW01L	No	Yes
R5, R16, R18	3	Resistor, SMD	10k	1%	0603	Vishay Dale	CRCW06031002F	Yes	Yes
R7	1	Resistor, SMD	44.2k	1%	0603	Vishay Dale	CRCW06034422F	Yes	Yes
R8, R10	2	Resistor, SMD	1k	1%	0603	Vishay Dale	CRCW06031001F	Yes	Yes
R9	1	Resistor, SMD	301k	1%	0603	Vishay Dale	CRCW06033013F	Yes	Yes
R11	1	Resistor, SMD	100 Ohm	1%	0603	Vishay Dale	CRCW0603100RF	Yes	Yes
R12	1	Resistor, SMD	1 Ohm	1%	0603	Vishay Dale	CRCW06031R00F	Yes	Yes
R13	1	Resistor, SMD	0 Ohm	1%	0603	Vishay Dale	CRCW0603000Z0EA	Yes	Yes
R14	1	Resistor, SMD	169k	1%	0603	Vishay Dale	CRCW06031693F	Yes	Yes
R15	1	Resistor, SMD	25.5k	1%	0603	Vishay Dale	CRCW06032552F	Yes	Yes
R17	1	Resistor, SMD	4.75k	1%	0603	Vishay Dale	CRCW06034751F	Yes	Yes
R20	1	Resistor, SMD	11.0k	1%	0603	Vishay Dale	CRCW06031102F	Yes	Yes
R21	1	Resistor, SMD	4.99k	1%	0603	Vishay Dale	CRCW06034991F	Yes	Yes
R22	1	Resistor, SMD	9.09k	1%	0603	Vishay Dale	CRCW06039091F	Yes	Yes
R23-24	2	Resistor, SMD	39.2k	1%	0603	Vishay Dale	CRCW06033922F	Yes	Yes
R25	1	Resistor, SMD	10.0 Ohm	1%	0603	Vishay Dale	CRCW060310R0F	Yes	Yes
R2	1	Resistor, SMD	0.33 Ohm	1%	0805	Vishay Dale	RCWE0805R330FKEA	Yes	Yes
R6	1	Resistor, SMD	2.2 Ohm	1%	0805	Vishay Dale	CRCW08052R20FKEA	Yes	Yes
R1	1	Resistor, SMD	1k	1%	1206	Vishay Dale	CRCW12061001F	Yes	Yes
R3	1	Resistor, SMD	100k	1%	1206	Vishay Dale	CRCW12061003F	Yes	Yes
R4	1	Resistor, SMD	47 Ohm	1%	1206	Vishay Dale	CRCW120647R0FKEA	Yes	Yes
R19	1	Resistor, SMD	NI	-	0603	-	-	Yes	Yes
RT1	1	Thermistor, NTC	220k	1%	2.5mm	Vishay BC	NTCLE100E3224JB0	Yes	Yes
F1	1	Fuse, Slow Blow	2A/250VAC	1%	8.35mm x 7.7mm	MULTICOMP	MST 2A 250V	Yes	Yes
L1	1	Choke, Common Mode	5 mH	1%	17.5mm x 14mm	Kemet	SC-01-50G	No	Yes
T1	1	Transformer, Flyback	140uH	1%	RM7	Wurth	7508112428 Rev 06	No	Yes
BD1	1	Diode, Bridge	600V/2A	1%	ABS(Z4)	Comchip	Z4GP206L-HF	No	Yes
D1-2	2	Diode, Rectifier	1000V/1A	-	SOD-123	Comchip	CGRM4007-G	Yes	Yes
D3, D5-8	5	Diode, General Purpose	200V/200mA	-	SOD-323	ON Semiconductor	BAS20HT1G	No	Yes
D4	1	Diode, Fast Recovery	600V/1A	-	SMA	Taiwan Semiconductor	RSFJL	Yes	Yes
M1	1	MOSFET, High Voltage	600V/385mOhm	-	THINPAK8X8	Infineon	IPL60R385CP	No	Yes
M2	1	MOSFET, SR	100V/4.8mOhm	-	SO-8FL	ON Semiconductor	NTMFS6B03N	No	Yes
U1	1	Flyback Controller	NCP1340B1	-	SOIC-8	ON Semiconductor	NCP1340B1DR2G	No	Yes
U2	1	Optocoupler	CTR 50%-200%	-	SMD-4	CEL	PS2513L-1-F3-A	No	Yes
U3	1	SR Controller	NCP43080D	-	DFN-8	ON Semiconductor	NCP43080DMNTWG	No	Yes
U4	1	Shunt Regulator	NCP431A	1%	SOT-23	ON Semiconductor	NCP431ACSN1G	No	Yes
-	-	Teflon Tubing	24 AWG	-	-	-	-	Yes	Yes