



## Bill of Material for the NCP12400A65WGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number
L1, L4, JP1, JP2, JP5, JP6, JP7	9	Jumper wire	0.8 $\phi$	-	Through Hole	Taiwan-Resister	
JP4	1	Resistor SMD	0 $\Omega$	5%	R0805	Taiwan-Resister	
R15	1	Resistor SMD	6.8 k $\Omega$	1%	R0805	Taiwan-Resister	
Rx	1	Resistor SMD	4.7 k $\Omega$	5%	R0805	Taiwan-Resister	
R14	1	Resistor SMD	30 k $\Omega$	5%	R0805	Taiwan-Resister	
R13	1	Resistor SMD	200 k $\Omega$	5%	R0805	Taiwan-Resister	
R2, R11	2	Resistor SMD	0 $\Omega$	5%	R1206	Taiwan-Resister	
R6A~D	4	Resistor SMD	1.2 $\Omega$	5%	R1206	Taiwan-Resister	
R4	1	Resistor SMD	20 $\Omega$	5%	R1206	Taiwan-Resister	
R16, R17	2	Resistor SMD	47 $\Omega$	5%	R1206	Taiwan-Resister	
R5	1	Resistor SMD	100 $\Omega$	5%	R1206	Taiwan-Resister	
R12	1	Resistor SMD	1.2 k $\Omega$	5%	R1206	Taiwan-Resister	
R3	1	Resistor SMD	5.6 k $\Omega$	1%	R1206	Taiwan-Resister	
R6	1	Resistor SMD	47 k $\Omega$	5%	R1206	Taiwan-Resister	
R1A, R1B	2	Resistor SMD	2.7 k $\Omega$	5%	R1206	Taiwan-Resister	
TR1	1	Thermistor	5 $\phi$ 100 k $\Omega$	-	Through Hole	SHING CHIN	TTC104
C6	1	Ceramic Capacitor	103 pF 500 V	20%	Radial	Taiwan-Resister	
C3, C17	2	Capacitor SMD	1 nF / 50 V	10%	C0805	Taiwan-Resister	
C12	1	Capacitor SMD	1 nF / 100 V	10%	C1206	Taiwan-Resister	
C13	1	Capacitor SMD	10 nF / 50 V	10%	C1206	Taiwan-Resister	
C9	1	Capacitor SMD	470 pF / 50 V	10%	C1206	Taiwan-Resister	
C10	1	Capacitor SMD	2.2 nF / 50 V	10%	C1206	Taiwan-Resister	
C8	1	Electrolytic	47 $\mu$ F / 50 V	10%	Radial	Jackcon	LHK



		Capacitor					
C5	1	Electrolytic Capacitor	120 $\mu$ F / 400 V	10%	Radial	Chemi-com	KMG
C16	1	Electrolytic Capacitor	470 $\mu$ F / 25 V	10%	Radial	NCC	KMG
C14	1	Electrolytic Capacitor	1000 $\mu$ F / 25 V	10%	Radial	NCC	KMG
C1	1	X2 Capacitor	0.33 $\mu$ F / 275 V	10%	Radial	KENJET	
C7	1	Y2 Capacitor	2.2 nF / 250 V	20%	Radial	KENJET	
L3	1	Inductor	1.6 $\mu$ H	20%	Through Hole	SUMIDA	00777-T053-1R6
L2	1	Choke	9 mH		Through Hole	SUMIDA	I-114
FB1	1	Bead Core	C8B 3.5*3.2*1.0+T	-	Through Hole	BAI HUEI	
D4, C7	2	Bead Core	C8B 3.5*3.2*1.0	-	-	BAI HUEI	
T2	1	Transformer	RM10 510 $\mu$ H	10%	RM-10	SUMIDA	
D1	1	Diode	RS1D	-	DO-41	Fairchild	
D4	1	Fast Diode	UF4007	-	DO-41	Fairchild	
D6, D7	2	General Diode	S1M	-	SMA	Fairchild	
D5	1	TVS	P6KE150A	-	DO-15	Fairchild	
BD1	1	Bridge Rectifier	2KBP06M	-		Fairchild	
Q1	1	Schottky Diode	MBR20150CT	-	TO-220	Fairchild	
U4	1	Regulator	KA-431	1%	TO-92	Fairchild	
Q2	1	MOSFET	FCPF380N65FL1	-	TO-220	Fairchild	
U3	1	Opto- coupler	FOD817A	-	DIP-4	Fairchild	
F1	1	Fuse	4 A / 250 V	-	Through Hole	SLEETECH	
CN1	1	Inlet	2P 90°	-	Through Hole	RICH BAY	R-201SN90(B06)
U1	1	IC	NCP12400	-	SOIC-8	ON Semiconductor	
VZ1	1	MOV	TVR10 471	-	Through Hole	SHING CHIN	
HS1	1	Heat Sink				Long Teng Feng Industrial	HS MCH0534
HS2	1	Heat Sink				Long Teng Feng Industrial	HS MCH0555