

ON Semiconductor



Bill of Materials for the NCP5106B Evaluation Board

6/6/2007

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
B1	2	Connector	2"	-	rad5.08mm	Weidmuller	PM5.08/2/90	Yes	Yes
C1,C2	2	Electrolytic Capacitor	47uF,400V	20%	radial	Panasonic	ECA2GM470	Yes	Yes
C11	1	Capacitor	10nF,100V	10%	radial	Murata	RPER72A103K2M1B05A	Yes	Yes
C12,C13	2	Capacitor	18pF,100V	2%	radial	BC Comp.	2222-682-10189	Yes	Yes
C14	1	Capacitor	220pF,1000V	10%	radial	Panasonic	PICECKA3A221KBP	Yes	Yes
C15	1	Capacitor	6.8nF,1600V	5%	radial	BC Comp.	2222 375 30682	Yes	Yes
C16	1	Capacitor	-	-	radial	-	-	Yes	Yes
C17	1	Electrolytic Capacitor	100uF,16V	20%	radial	Panasonic	ECA1CM101	Yes	Yes
C3	1	Electrolytic Capacitor	220uF,16V	20%	radial	BC Comp.	2222-13555221	Yes	Yes
C4	1	Electrolytic Capacitor	4.7uF,63V	20%	radial	Nippon Chemi-Con	SMEVB4.7UF63V	Yes	Yes
C5,C6	2	Capacitor	100nF,50V	10%	radial	Murata	RPER71H104K2M1A05U	Yes	Yes
C7,C8	2	Capacitor	220nF,400V	10%	radial	Vishay	MKT1822422405	Yes	Yes
C9,C10	2	Capacitor	220pF,100V	5%	radial	Murata	RPE5C2A221J2M1Z05A	Yes	Yes
D1	1	Zener Diode	15V,1.3W	5%	axial	Vishay	BZX85C15	Yes	Yes
D2	1	High-Speed Diode	0.2A,75V	0%	axial	Philips Semiconductor	1N4148	Yes	Yes
D3,D5,D6	3	Rectifier Diode	1A,400V	0%	axial	ON Semiconductor	1N4936G	Yes	Yes
D4	1	Zener Diode	5.1V,1.3W	5%	axial	Vishay	BZX85C5V1	Yes	Yes
F1	1	Fuse	500mA,250V	0%	radial	Schurter	0034-6612	Yes	Yes
J1	1	Connector	2"	-	rad5.08mm	Weidmuller	PM5.08/2/90	Yes	Yes
J2	1	Resistor	0Ω,0.25W	0%	axial	Multicomp	MCF0.25W0R	Yes	Yes
L1	1	Inductor	1.4mH	-	-	Vogt	53-044	No	Yes
PT1	1	Diode Bridge	600V,1A	0%	dil	General Semiconductor	DF06M	Yes	Yes
Q1,Q2	2	Power MOSFET N-Channel	8A,500V	-	to220	International Rectifier	INF840LC	Yes	Yes
Q3,Q4	2	NPN Transistor	100mA,45V	-	to92	ON Semiconductor	BC547B	Yes	Yes
R1,R15	1	Resistor	22kΩ,0.33W	5%	axial	Neohm	CFR25J22K	Yes	Yes
R10	1	Resistor	33kΩ,0.33W	5%	axial	Neohm	CFR25J33K	Yes	Yes
R11	1	Resistor	47kΩ,0.33W	5%	axial	Neohm	CFR25J45K	Yes	Yes
R12	1	Resistor	27kΩ,0.33W	5%	axial	Neohm	CFR25J27K	Yes	Yes
R13	1	Resistor	15kΩ,0.33W	5%	axial	Neohm	CFR25J15K	Yes	Yes
R14	1	Resistor	390kΩ,0.33W	5%	axial	Neohm	CFR25J390K	Yes	Yes
R16	1	Resistor	68kΩ,0.33W	5%	axial	Neohm	CFR25J68K	Yes	Yes
R2	1	Resistor	120kΩ,0.33W	5%	axial	Neohm	CFR25J120K	Yes	Yes
R3,R4	2	Resistor	82kΩ,3W	5%	axial	BC Comp.	232219514823	Yes	Yes
R5,R6,R7	3	Resistor	10Ω,0.33W	5%	axial	Neohm	CFR25J10R	Yes	Yes
R8,R9	2	Resistor	10kΩ,0.33W	5%	axial	Neohm	CFR25J10K	Yes	Yes
U1	1	CMOS IC	analog/timer	-	dip8	Texas Instruments	TLC555CP	No	Yes
U2	1	NCP5106B	NCP5106B	-	dip8	ON Semiconductor	NCP5106B	No	Yes