

Bill of Materials for NCP5104 Demonstration Board

10/30/2007

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
B1	2	connector	2/"	0%	rad5.08mm	weidmuller	pm5.08/2/90	yes	yes
C1,C2	2	electrolytic capacitor	47uF/400V	0.2	radial	panasonic	ECA2GM470	yes	yes
C11	1	capacitor	10nF/100V	10%	radial	murata	rper72a103k2m1b05a	yes	yes
C12,C13	2	capacitor	NC		radial			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	NC		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
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/"	0%	rad5.08mm	weidmuller	pm5.08/2/90	yes	yes
J2	1	resistor	0R/0.25W	0%	axial	multicomp	mcf 0.25w 0r	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	0%	to220	international rectifier	irf840lc	yes	yes
Q3	1	NPN transistor	100mA/45V	0%	to92	On Semiconductor	bc547b	yes	yes
R1,R15	1	resistor	22kR/0.33W	5%	axial	neohm	cfr25j22k	yes	yes
R10	1	resistor	33kR/0.33W	5%	axial	neohm	cfr25j33k	yes	yes
R11	1	resistor	47kR/0.33W	0.05	axial	neohm	cfr25j47k	yes	yes
R12	1	resistor	27kR/0.33W	5%	axial	neohm	cfr25j27k	yes	yes
R13	1	resistor	0R/0.25W	5%	axial	multicomp	mcf 0.25w 0r	yes	yes
R14	1	resistor	390kR/0.33W	5%	axial	neohm	cfr25j390k	yes	yes
R16	1	resistor	68kR/0.33W	5%	axial	neohm	cfr25j68k	yes	yes
R2	1	resistor	NC		axial			yes	yes
R3,R4	2	resistor	82kR/3W	5%	axial	BC Comp.	232219514823	yes	yes
R5,R6,R7	3	resistor	10R/0.33W	5%	axial	neohm	cfr25j10R	yes	yes
R8,R9	2	resistor	10kR/0.33W	5%	axial	neohm	cfr25j10k	yes	yes
U1	1	CMOS IC	analog/timer	0%	dip8	texas instruments	tlc555cp	no	yes
U2	1	NCP5104	NCP5104		dip8	On Semiconductor	ncp5104	no	yes