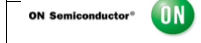


Bill of Materials for the NCP1632GEVB Evaluation Board



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
BO		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
BRD LEGS1		BRD SPT SNAP LOCK SCREW MNT 1/2"				Essentra Components	TCBS-8-01		
BRD LEGS2		BRD SPT SNAP LOCK SCREW MNT 1/2"				Essentra Components	TCBS-8-01		
BRD LEGS4		BRD SPT SNAP LOCK SCREW MNT 1/2"				Essentra Components	TCBS-8-01		
BRD LEGS5		BRD SPT SNAP LOCK SCREW MNT 1/2"				Essentra Components	TCBS-8-01		
C1		CAP FILM 0.1UF 20% 305VAC RADIAL	0.1uF, 305Vac			EPCOS (TDK)	B32921C3104M		
C2		CAP ALUM 100UF 20% 450V RADIAL	100uF	±20%		United Chemi-Con	EKXG451ELL101MM40S		
C5		CAP CER 0.47UF 50V X7R 1206	470nF	±10%		AVX Corporation	12065C474KAT2A		
C6		CAP FILM 1UF 20% 305VAC RADIAL	1uF, 305Vac			EPCOS (TDK)	B32923C3105M		
C10		CAP FILM 4700PF 20% 1.5KVDC RAD	4.7nF	±20%		EPCOS (TDK)	B32021A3472M		
C14		CAP CER 470PF 50V X7R 1206	470pF	±10%		KEMET	C1206C471K5RAC7800		
C15		CAP CER 22PF 50V X7R 1206	22pF	±5%		AVX Corporation	12065C220JAT2A		
C16		CAP FILM 4700PF 20% 1.5KVDC RAD	4.7nF	±20%		EPCOS (TDK)	B32021A3472M		
C18		CAP FILM 0.68UF 20% 305VAC RAD	0.68uF, 305Vac			EPCOS (TDK)	B32923A2684M		
C20		CAP CER 0.15UF 50V X7R 1206	150nF	±10%		AVX Corporation	12065C154KAT2A		
C21			DNP						
C22		CAP CER 1000PF 50V X7R 1206	1nF	±10%		AVX Corporation	12065C102KAT2A		
C25		CAP CER 1UF 50V X7R 1206	1uF	±10%		AVX Corporation	12065C105KAT2A		
C27		CAP CER 1000PF 50V X7R 1206	1nF	±10%		AVX Corporation	12065C102KAT2A		
C28		CAP CER 0.22UF 50V X7R 1206	220nF	±10%		AVX Corporation	12065C224KAT2A		
C29			DNP						
C30		CAP CER 0.1UF 50V X7R 1206	100nF	±10%		AVX Corporation	12065C104KAT2A		
C32		CAP ALUM 100UF 20% 25V RADIAL	100uF	±20%		United Chemi-Con	EKY-250ELL101MF11D		
C33		CAP CER 0.1UF 50V X7R 1206	100nF	±10%		AVX Corporation	12065C104KAT2A		
C34		CAP CER 6800PF 50V X7R 1206	6.8nF	±5%		KEMET	C1206C682J5RAC7800		
CM1		CMC 7MH 3.5A 2LN TH	7mH, 3.5A			Würth Electronics Inc.	744834407		
CS		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
D1		RECT BRIDGE GPP 4A 800V GBU	GBU408, 4A, 800V			Diodes Incorporated	GBU408		
D3		LED GRN DIFF 3.2MM ROUND TH	GREEN LED			Vishay Semiconductor Opto Div	TLLG4400		
D4		DIODE GEN PURP 520V 5A DO201AD	MUR550APFG			ON Semiconductor	MUR550APFG		
D5		DIODE GEN PURP 520V 5A DO201AD	MUR550APFG			ON Semiconductor	MUR550APFG		
D6		DIODE GEN PURP 100V 200MA DO35	1N4148			Fairchild/ON Semiconductor	1N4148		
D7		DIODE GEN PURP 1KV 1A DO41	DNP			Fairchild/ON Semiconductor	1N4007		
D8		DIODE GEN PURP 100V 200MA DO35	DNP			Fairchild/ON Semiconductor	1N4148		
D14		DIODE GEN PURP 100V 200MA DO35	1N4148			Fairchild/ON Semiconductor	1N4148		
D15		DIODE GEN PURP 100V 200MA DO35	1N4148			Fairchild/ON Semiconductor	1N4148		
D16		DIODE GEN PURP 600V 3A DO201AD	1N5406RLG			ON Semiconductor	1N5406RLG		
D17		DIODE GEN PURP 600V 3A DO201AD	DNP			ON Semiconductor	1N5406RLG		
D21		DIODE ZENER 18V 500MW SOD123	DNP	±5%		ON Semiconductor	MMSZ5248BT1G		
DM1		FIXED IND 150UH 5A 45 MOHM TH	150uH			Würth Electronics Inc.	7447076		
DRV1		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
DRV2		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
F1		FUSE GLASS 4A 250VAC 5X20MM	4A			Bel Fuse Inc.	5STP 4-R		
FB		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
FET_SOURCE		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
FFOLD		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
GND		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
HS1		FISCHER ELEKTRONIK SK 481 100	Heat Sink 100mm			Fischer Elektronik	SK 481 100		
J1			Ext. Vcc			On Shore Technology Inc.	ED200/ZDS		
LATCH		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
NCP1632		NCP1632 PFC IC				ON Semiconductor			
OSC		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
OVFLVMP		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
PFCOK		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
Q1		TRANS PNP 45V 0.5A SOT-23	BC807-16L			ON Semiconductor	BC807-16LT1G		
Q2		TRANS PNP 45V 0.5A SOT-23	BC807-16L			ON Semiconductor	BC807-16LT1G		
R1		RES SMD 2K OHM 1% 1/4W 1206	2k	±1%		Vishay Dale	CRCW12062K00FKTA		
R3		RES SMD 22K OHM 1% 1/4W 1206	DNP	±1%		Vishay Dale	CRCW120622K0FKFA		
R4		RES SMD 22K OHM 1% 1/4W 1206	DNP	±1%		Vishay Dale	CRCW120622K0FKFA		
R5		RES SMD 0.01 OHM 1% 1W 1206	10m Ohm	±1%		Panasonic Electronic Component	ERJ-8CWFR010V		
R6		RES SMD 1K OHM 1% 1/4W 1206	1k	±1%		Vishay Dale	CRCW12061K00FKFA		
R7		RES SMD 2.2 OHM 1% 1/4W 1206	2.2	±1%		Vishay Dale	CRCW12062R20FKFA		
R8		RES SMD 100 OHM 1% 1/4W 1206	DNP	±1%		Vishay Dale	CRCW1206100RFKFA		
R9		RES SMD 100 OHM 1% 1/4W 1206	100	±1%		Vishay Dale	CRCW1206100RFKFA		
R11		RES SMD 10K OHM 1% 1/4W 1206	10k	±1%		Vishay Dale	CRCW120610K0FKFA		
R14		RES SMD 22K OHM 1% 1/4W 1206	22k	±1%		Vishay Dale	CRCW120622K0FKFA		
R15		RES SMD 22K OHM 1% 1/4W 1206	22k	±1%		Vishay Dale	CRCW120622K0FKFA		
R16		RES SMD 10 OHM 1% 1/4W 1206	10	±1%		Vishay Dale	CRCW120610R0FKFA		
R17		RES SMD 2.2 OHM 1% 1/4W 1206	2.2	±1%		Vishay Dale	CRCW12062R20FKFA		
R18		RES SMD 560K OHM 1% 1/4W 1206	560k	±1%		Vishay Dale	CRCW1206560KFKFA		
R20		RES SMD 10K OHM 1% 1/4W 1206	10k	±1%		Vishay Dale	CRCW120610K0FKFA		
R21		RES SMD 10 OHM 1% 1/4W 1206	10	±1%		Vishay Dale	CRCW120610R0FKFA		
R23		RES SMD 820K OHM 1% 1/4W 1206	820k	±1%		Vishay Dale	CRCW1206820KFKFA		
R24		RES 0.05 OHM 3W 1% AXIAL	50mOhm	±1%		Ohmite	13FR050E		
R25		RES SMD 27K OHM 1% 1/4W 1206	27k	±1%		Vishay Dale	CRCW120627K0FKFA		

R30		RES SMD 5.1K OHM 1% 1/4W 1206	5.1k	±1%		Vishay Dale	CRCW12065K10FKEA		
R31		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R32		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R33		RES SMD 18K OHM 1% 1/4W 1206	18k	±1%		Vishay Dale	CRCW120618K0FKEA		
R34		RES SMD 270K OHM 1% 1/4W 1206	270k	±1%		Vishay Dale	CRCW120627K0FKEA		
R36		RES SMD 33K OHM 1% 1/4W 1206	33k	±1%		Vishay Dale	CRCW120633K0FKEA		
R37		RES SMD 150K OHM 1% 1/4W 1206	150k	±1%		Vishay Dale	CRCW1206150K0FKEA		
R38		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R39		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R40		RES SMD 27K OHM 1% 1/4W 1206	27k	±1%		Vishay Dale	CRCW120627K0FKEA		
R41		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R42		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R43		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R44		RES SMD 1.8M OHM 1% 1/4W 1206	1.8Meq	±1%		Vishay Dale	CRCW12061M80FKEA		
R46		RES SMD 120K OHM 1% 1/4W 1206	120k	±1%		Vishay Dale	CRCW1206120K0FKEA		
R121		RES SMD 680K OHM 1% 1/4W 1206	680k	±1%		Vishay Dale	CRCW1206680K0FKEA		
R122		RES SMD 680K OHM 1% 1/4W 1206	680k	±1%		Vishay Dale	CRCW1206680K0FKEA		
R123		RES SMD 680K OHM 1% 1/4W 1206	680k	±1%		Vishay Dale	CRCW1206680K0FKEA		
RT		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
STRAP_S1									
STRAP_S2									
STRAP_S4									
VAC_CONNECTOR		TERMINAL BLOCK 5MM VERT 3POS PCB				On Shore Technology Inc.	OSTTA030161		
VBULK		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
VBULK_CONNECTR		TERMINAL BLOCK 5MM VERT 3POS PCB				On Shore Technology Inc.	OSTTA030161		
VCC		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
VCONTROL		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
VIN		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
VSW1		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
VSW2		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
X2		Boost inductor 165uH Wurth	165uH			Wurth	750316986rev01		
X4		MOSFET N-CH 600V 22A TO-220				Fairchild/ON Semiconductor	FCP22N60N		
X6		MOSFET N-CH 600V 22A TO-220				Fairchild/ON Semiconductor	FCP22N60N		
X7		Boost inductor 165uH Wurth	165uH			Wurth	750316986rev01		
ZCD1		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
ZCD2		TEST POINT PC MINI .040"D BLACK				Keystone Electronics	5001		
TO220 Isolator						BERGQUIST	3223-07FR-43		
TO220 Isolator						BERGQUIST	3223-07FR-43		