



Bill of Materials for the NCP1032BGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
Q2-3	2	Bipolar Transistor	40V 0.2 A	N/A	SOT-23-3	ON Semiconductor	MMBT3904LT3G	No	Yes
CC	1	SMT Capacitor	33nF	±10%	603	TDK Corporation	C1608X7R1H333K080AA	Yes	Yes
CCT	1	SMT Capacitor	560pF	±5%	603	TDK	C1608C0G1H561J080AA	Yes	Yes
CF CUV1-2	3	SMT Capacitor	1nF	±10%	603	TDK Corporation	CGA3E2X7R1H102K080AD	Yes	Yes
CP	1	SMT Capacitor	100pF	±5%	603	TDK Corporation	C1608C0G1H101J080AA	Yes	Yes
CVCC	1	SMT Capacitor	3.3uF	±10%	603	TDK Corporation	C1608X5R1V335K080AC	Yes	Yes
C1	1	SMT Capacitor	120pF	±10%	805	Vishay Vitramon	VJ0805A121JXRAT5Z	Yes	Yes
CCLP CS	2	SMT Capacitor	1nF	±10%	805	TDK	C2012C0G2E102J085AA	Yes	Yes
CAUX COUT	2	SMT Ceramic Capacitor	22µF	±20%	1206	TDK Corporation	C3216X5R1E226M	Yes	Yes
CIN	1	SMT Capacitor 100V X7S	1.0uF	±10%	1206	TDK	C2012X7S2A105M125AB	Yes	Yes
IN_LOOP IOUT_LOOP	2	Through Hole	Loop	N/A	Through Hole	3M	923345-02-ND	Yes	Yes
SEC	1	SIP Header	C Secondary	N/A	SIP	Harwin Inc	M20-9770246	Yes	Yes
FB_SELECT	1	SIP Header	3 pin	N/A	SIP	Harwin Inc	M20-9990346	Yes	Yes
D7 DCLP	2	Schottky Rectifier	200V 1A	N/A	SOD-123FL	Micro Commercial Co	SMD1200PL-TP	Yes	Yes
D1	1	Schottky Rectifier	40V 1 A	N/A	SOD-123	ON Semiconductor	MBR140SFT1G	No	Yes
D2-3	2	Schottky Rectifier	40V 0.5A	N/A	SOD-123	ON Semiconductor	MBR0540T3G	No	Yes
VIN VOUT	2	TERM BLOCK	2 Pin 200mil	N/A	Through Hole	Weidmuller	1512660000 & 1943580000	Yes	Yes
GNDJ	1	Jumper	JMP	N/A	400 mill Th	Harwin Inc	952-1873-ND	Yes	Yes
D4	1	Zener Diode	5.1V	±5%	SOD-123	ON Semiconductor	MMSZ4689T1G	No	Yes
D5	1	Zener Diode	68V	±5%	SOD-123	ON Semiconductor	MMSZ5266BT1G	No	Yes
U1	1	Flyback PWM Regulator	NCP1032A	1%	DFN 8	ON Semiconductor	NCP1032A	No	Yes
R1	1	SMT Resistor	49.9k	±1%	603	Vishay Dale	CRCW060349K9FKEA	Yes	Yes
R2	1	SMT Resistor	13k	±1%	603	Vishay Dale	CRCW060313K0FKEA	Yes	Yes
R4	1	SMT Resistor	32.4k	±1%	603	Vishay Dale	CRCW060332K4FKEA	Yes	Yes
R5-6 R17-18	4	SMT Resistor	10k	1%	603	Visha	CRCW060310K0FKEA	Yes	Yes
R15	1	SMT Resistor	20R	±1%	603	Vishay Dale	CRCW060320R0FKEA	Yes	Yes
R16 R14	2	SMT Resistor	3.24k	±1%	603	Vishay Dale	CRCW06033K24FKEA	Yes	Yes
R8	1	SMT Resistor	48.7k	±1%	603	Vishay Dale	CRCW060348K7FKEA	Yes	Yes
R11	1	SMT Resistor	0R0	5%	805	Vishay	CRCW08050000Z0EA	Yes	Yes
R3 R7 R10	3	SMT Resistor	1M	1%	805	Vishay Dale	CRCW08051M00FKEA	Yes	Yes
RAUX RSEC	2	SMT Resistor	1	±5%	805	Vishay Dale	CRCW08051R00JNEAHP	Yes	Yes
RS RCPL	2	SMT Resistor	18k	1%	805	Vishay Dale	CRCW080518K0JNEA	Yes	Yes
JUMP JUMP1	2	Jumper	2	N/A	Female Sockets	3M	969102-0000-DA	Yes	Yes
T1	1	Flyback Transformer	120uH pri : sec 1 : 0.36	±10%	(12X10)mm	Coil Craft	B0226-EL	Yes	Yes
5VSYNC CHA CHB CT ENABLE GNDFA GNDIN GND_OUT1 SYNC1 UVLO VCC VDRAIN VINS VOUT1	14	Test Point	1	N/A	Through Hole	Keystone Electronics	5004	Yes	Yes