



Bill of Materials for the NCN26010BMNEVB Evaluation Board

Designator (Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C7	2	0.1 μ F \pm 10% 50V Ceramic Capacitor X7R (2R1) 0603 (1608 Metric)	0.1 uF	\pm 10%	0603 CAP	Knowles Syfer	0603Y0500104KET	Yes	Yes
C2	1	100 μ F 50 V Aluminum Electrolytic Capacitors Radial, Can - 2000 Hrs @ 105°C	100 uF	\pm 20%	CAP_107CKE035M ILC	Rubycon	50WXA100MEFCT78X9	Yes	Yes
C3	1	4.7 μ F \pm 20% 25V Ceramic Capacitor X5R 0805 (2012 Metric)	4.7 uF	\pm 20%	0603 CAP	KYOCERA AVX	CM105X5R475M25AT	Yes	Yes
C6, C9	2	1 μ F \pm 20% 25V Ceramic Capacitor X6S 0603 (1608 Metric)	1 uF	\pm 20%	0603 CAP	TDK Copporation	C1608X6S1E105M080AB	Yes	Yes
C8	1	10 μ F \pm 20% 16V Ceramic Capacitor X6S 0603 (1608 Metric)	10 uF	\pm 20%	0603 CAP	Murata Electronics	GRM188C81C106MA73D	Yes	Yes
D1	1	Green 520nm LED Indication - Discrete 3.2V 0603 (1608 Metric)	150060GS75000		0603 LED	Würth Elektronik	150060GS75000	Yes	Yes
D2	1	Blue 470nm LED Indication - Discrete 3.2V 0603 (1608 Metric)	150060BS75000		604 LED	Würth Elektronik	150060BS75000	Yes	Yes
D3, D4	2	Diode Schottky 40 V 4A Surface Mount SMC	MBRS340T3G		SMC	onsemi	MBRS340T3G	No	Yes
D5	1	Diode Standard 100 V 200mA (DC) Surface Mount SOD-523	BAS16XV2T1G		SOD-523	onsemi	BAS16XV2T1G	No	Yes
J1, J2	2	Connector Header Through Hole 2 position 0.100" (2.54mm)			through hole 100mil	Samtec Inc.	TSW-102-07-G-S	Yes	Yes
J3	1	Power Barrel Connector Jack 2.10mm ID (0.083"), 5.50mm OD (0.217") Through Hole, Right Angle			CUI_PJ-037AH	CUI Devices	PJ-037AH	Yes	Yes
J5	1	12 Position Header Connector 0.100" (2.54mm) Through Hole, Right Angle Gold			PMOD Header Female	Sullins Connector Solutions	PPPC062LJBN-RC	Yes	Yes
L1	1	4.7 μ H Shielded Molded Inductor 3.9 A 44mOhm Max 1616 (4040 Metric)	4.7 μ H, 3.9A, 44mOhm	\pm 20%	1616_IND	Würth Elektronik	74438357047	Yes	Yes
Pi	1	40 Position Header Connector 0.100" (2.54mm) Through Hole Tin			2x20 Through Hole 100mil	Sullins Connector Solutions	PPTC202LFBN-RC	Yes	Yes
R1	1	10 kOhms \pm 1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)	10K	\pm 1%	0603 RES	YAGEO	RC0603FR-0710KL	Yes	Yes
R2	1	1 kOhms \pm 1% 0.25W, 1/4W Chip Resistor 0603 (1608 Metric)	1K	\pm 1%	0603 RES	Rohm Semiconductor	ESR03EZPF1001	Yes	Yes
R3	1	510 Ohms \pm 1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)	500	\pm 1%	0603 RES	Stackpole Electronics Inc	RMCF0603FT510R	Yes	Yes
R5, R6	2	0 Ohms Jumper 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)	0		0603 RES	YAGEO	RC0603JR-070RP	Yes	Yes
TP1, TP2, TP3, TP4	4	Do not Populate			Test Point			Yes	Yes
U1	1	Buck Switching Regulator IC Positive Fixed 5V 1 Output 3A 8-SOIC (0.154", 3.90mm Width) Exposed Pad			8-SOIC	onsemi	NCV891330PD50R2G	No	Yes
U2	1	Linear Voltage Regulator IC Positive Fixed 1 Output 300mA 5-TSOP	3.3V		5-TSOP	onsemi	NCP115ASN330T2G	No	Yes

