



Bill of Materials for the NCP1060FLBKGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAPACITOR	10 nF	10%	THROUGH HOLE	Vishay BC Components	BFC237261103	Yes	Yes
C2	1	CERAMIC CAPACITOR	1.0 nF	10%	0805	Kemet	C0805C102K5RACTU	Yes	Yes
C3, C4	2	ELECTROLYTIC CAPACITOR	10 µF / 450 V	20%	THROUGH HOLE	Koshin	KLH450V100MG	Yes	Yes
C5	1	ELECTROLYTIC CAPACITOR	NU	-	THROUGH HOLE	-	-	-	Yes
C6	1	ELECTROLYTIC CAPACITOR	470 µF / 16 V	20%	THROUGH HOLE	Koshin	KLH-16V471MG4	Yes	Yes
C7	1	ELECTROLYTIC CAPACITOR	220 µF / 35 V	20%	THROUGH HOLE	Koshin	KZH-35V221MG4	Yes	Yes
C8, C11	2	CERAMIC CAPACITOR	100 nF	10%	0805	Kemet	C0805C104K5RAC	Yes	Yes
C9	1	CERAMIC CAPACITOR	NU	-	0805	-	-	-	Yes
C10	1	ELECTROLYTIC CAPACITOR	10 µF / 25 V	20%	THROUGH HOLE	Koshin	KLH025V100ME3	Yes	Yes
C12	1	CERAMIC CAPACITOR	2.2 nF	10%	0805	Kemet	C0805C222K5RACTU	Yes	Yes
C13	1	CERAMIC CAPACITOR	12 nF	10%	0805	Kemet	C0805C123K5RACTU	Yes	Yes
C14	1	ELECTROLYTIC CAPACITOR	4.7 µF / 50 V	20%	THROUGH HOLE	Koshin	KLH050V4R7ME3	Yes	Yes
CX1	1	CAPACITOR X2	68 nF	20%	THROUGH HOLE	Epcos	B32922C3683M	Yes	Yes
CX2	1	CAPACITOR X2	150 nF	20%	THROUGH HOLE	Epcos	B32922C3154M	Yes	Yes
CY	1	CAPACITOR X1Y1	1.0 nF	20%	THROUGH HOLE	Murata	DE1E3KX102MA5BA01	Yes	Yes
D1, D4, D5, D6	4	DIODE	MRA4007	-	SMA	ON Semiconductor	MRA4007T3G	No	Yes
D2	1	DIODE	MURA160	-	SMA	ON Semiconductor	MURA160T3G	No	Yes
D3	1	DIODE	MBRS1100	-	SMC	ON Semiconductor	MBRS1100T3G	No	Yes
D7	1	DIODE	MMSD4148	-	SOD123	ON Semiconductor	MMSD4148T3G	No	Yes
IC1	1	SWITCHER	NCP1060	-	PDIP-7	ON Semiconductor	NCP1060AP060G	No	Yes
L1	1	INDUCTOR	2.2 µH	-	WE-TPC_2828	Würth Elektronik	744025002	No	Yes
L2	1	INDUCTOR	1.0 mH	-	RFB0807	Würth Elektronik	768772102	No	Yes
L3	1	INDUCTOR	NU	-	RFB0807	-	-	-	Yes
L4	1	COMMON MODE FILTER CHOKE	12 mH	-	WE-TFC	Würth Elektronik	744862120	No	Yes
OK1	1	OPTOCOUPLER	FOD817	-	SMD-4	Fairchild Semiconductor	FOD817CS	No	Yes
R1	1	RESISTOR	15 Ω	1%	0805	Rohm Semiconductor	MCR10ERTF15R0	Yes	Yes
R2	1	RESISTOR	270 kΩ	1%	0207/10	Vishay Dale	CMF55270K00FKEB	Yes	Yes
R3	1	RESISTOR	20 Ω	5%	0613	Vishay BC Components	AC03000002009JAC00	Yes	Yes
R4	1	VARISTOR	820572711	-	THROUGH HOLE	Würth Elektronik	820572711	No	Yes
R5	1	RESISTOR	6.8 kΩ	1%	0805	Rohm Semiconductor	MCR10ERTF4701	Yes	Yes
R6	1	RESISTOR	560 kΩ	1%	0805	Rohm Semiconductor	MCR10ERTF5603	Yes	Yes
R7	1	RESISTOR	1.0 kΩ	1%	0805	Rohm Semiconductor	MCR10ERTF1001	Yes	Yes
R8	1	RESISTOR	33 kΩ	1%	0805	Rohm Semiconductor	MCR10ERTF3302	Yes	Yes
R9	1	RESISTOR	NU	-	0805	-	-	-	Yes
R10	1	RESISTOR	0.0 Ω	-	0805	Vishay Dale	CRCW08050000Z0EA	Yes	Yes
R11	1	RESISTOR	4.7 MΩ	5%	Axial Lead	Welwyn	VRW37-4M7J1	Yes	Yes
R12	1	RESISTOR	9.1 kΩ	1%	0805	Rohm Semiconductor	MCR10ERTF9101	Yes	Yes
R13	1	RESISTOR	200 kΩ	1%	0805	Rohm Semiconductor	MCR10ERTF2003	Yes	Yes
R14	1	RESISTOR	10 Ω	1%	0805	Rohm Semiconductor	MCR10ERTF10R0	Yes	Yes
TR1	1	TRANSFORMER	750370026	-	THROUGH HOLE	Würth Elektronik	750370026	No	Yes
VR1	1	VOLTAGE REGULATOR	NCP431	1%	TO-92	ON Semiconductor	NCP431ACLPRAG	No	Yes
X1, X2	2	WAGO SCREW CLAMP 237-102 unknown 70K9898	691101710002	-	THROUGH HOLE	Würth Elektronik	691101710002	No	Yes
-	2	WIRE STRAP (INSULATED)	-	-	WIRE STRAP	Various	-	Yes	Yes
BOARD STANDOFF	4	HEX STANDOFF M3 NYLON	8.0 mm	-	-	Harwin	R30-1610800	Yes	Yes