



Bill of Materials for the NCV891330PD38GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVIN0, CVIN1, CVIN2	3	CAP CER 4.7UF 50V 10% X7R 1210	4.7uF	10%	1210	Murata Electronics North America	GRM32ER71H475KA88L	Yes	Yes
CVIN3	1	CAP CER 1.0UF 50V X5R 0805	1.0uF	10%	805	Murata Electronics North America	UMK212B1105KG-T	Yes	Yes
CB1	1	CAP ALUM 100UF 63V 20% RADIAL	100uF	20%	CAP_RAD_8X11P5	Nichicon	UPW1J1101MPD6	Yes	Yes
CBST, CDRV, COUT2	3	CAP .10UF 10V CERAMIC X7R 0603	0.1uF	10%	603	Kemet	C0603C104K8RACTU	Yes	Yes
COUT1, COUT2, COUT3	3	CAP CER 10UF 10V X7R 1206	10uF	10%	1206	Murata Electronics North America	GRM31CR71A106KA01L	Yes	Yes
CSNB	0	Do Not Populate	-	-	-	-	-	Yes	Yes
R1	1	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	1%	603	Vishay/Dale	CRCW060310K0FKEA	Yes	Yes
R2	1	RES 0.0 OHM 1/10W 0603 SMD	0	N/A	603	Vishay/Dale	CRCW06030000Z0EA	Yes	Yes
RSNB	0	Do Not Populate	-	-	-	-	-	Yes	Yes
DFW	1	DIODE SCHOTTKY 3.0A 40V SMB	40V / 3.0A	N/A	MBR340MFS	ON Semiconductor	NRVB440MFS	No	Yes
DBST	1	DIODE SWITCH 200MA 75V SOD323	75V / 0.2A	N/A	SOD_323	ON Semiconductor	BAS16HT1G	No	Yes
L0 *	1	RES 0.0 OHM 1/4W JUMP 1206 SMD	0	5%	1206	Yageo	RC1206JR-070RL	Yes	Yes
L1	1	INDUCTOR POWER 2.2UH 5.6A SMD	2.2uH	4.5A	XAL4020-222	Coilcraft, Inc.	XAL4020_222ME	No	Yes
GND1, GND2, GND3, GND4	4	TERM SOLDER TURRET .219" .109"L	N/A	N/A	TURRET	Mill-Max Manufacturing Corp.	2501-2-00-44-00-00-07-0	Yes	Yes
RSTB, SYNC1, VBAT, VOUT1, VOUT2	5	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
BST, DRV, RID, RID1, SW	0	Do Not Populate	-	-	-	-	-	Yes	Yes
U1	1	3.8V, 3A 2MHz Auto. Buck Switching Regulator	NCV891330PD33R2G	N/A	SOIC8EP	ON Semiconductor	NCV891330PD38R2G	No	Yes

* L0 is a placeholder footprint for an optional input inductor filter component. Boards are shipped with a shorting jumper installed to complete the input path.