



Bill of Materials for the NCV891234MW50GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVIN0	1	CAP CER 0.1UF 250V 10% X7R 1210	0.1uF	10%	1210	TDK Corporation	CGA6M3X7R2E104K200AA	Yes	Yes
CVIN1, CVIN2	2	CAP CER 4.7UF 50V 10% X7R 1210	4.7uF	10%	1210	Murata Electronics North America	GCM32ER71H475KA55L	Yes	Yes
CVIN3	1	CAP CER 1.0UF 50V X7R 0805	1.0uF	10%	805	Murata Electronics North America	GCM21BR71H105KA03L	Yes	Yes
CB1	1	CAP ALUM 100UF 63V 20% RADIAL	100uF	20%	CAP_RAD_8X11P5	Chemi-Con	ELXZ630ELL101MH15D	Yes	Yes
CBST, CDRV, COUTS	3	CAP .10UF 16V CERAMIC X7R 0603	0.1uF	10%	603	Murata Electronics North America	GCM188R71C104KA37D	Yes	Yes
COUT1, COUT2, COUT3	3	CAP CER 10UF 10V X7R 1206	10uF	10%	1206	Murata Electronics North America	GCM31CR71A106KA64L	Yes	Yes
CSNB	1		Do Not Populate		603			Yes	Yes
R1, R3, R4	3	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	1		Do Not Populate		603			Yes	Yes
DFW	1	DIODE SCHOTTKY 3.0A 40V SMB	40V / 3.0A	N/A	MBR340MFS	ON Semiconductor	NRVB440MFST1G	No	Yes
DBST	1	DIODE SWITCH 200MA 100V SOD323	100V / 0.2A	N/A	SOD_323	ON Semiconductor	BAS16HT1G	No	Yes
L0	1	High Current Shielded Inductor 1.0uH, 8.7A SAT	1.0uH	20%	XAL4020-102ME	Coilcraft	XAL4020-102ME	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
EN, FAULTB, RSTB, SYNCI, SYNCO, VBAT, VOUT1, VOUT2	8	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
BST, DRV, RID1, RID2, SW	5		Do Not Populate		TPA			Yes	Yes
U1	1	5.0V, 2A 2MHz Auto. Buck Switching Regulator	NCV891234MW50R2G	N/A	12PINDFN4X4P65	ON Semiconductor	NCV891234MW50R2G	No	Yes