



## Bill of Materials for the NV890230PDR2GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVIN1	1	CAP CER 4.7UF 50V 10% X7R 1210	4.7uF	10%	1210	Murata Electronics North America	GRM32ER71H475KA88L	Yes	Yes
CVIN2	1	CAP CER 1.0UF 50V X5R 0805	1.0uF	10%	0805	Murata Electronics North America	UMK212BJ105KG-T	Yes	Yes
CVIN3	1	-	Do Not Populate	-	1210	-	-	Yes	Yes
CDRV, CBST	2	CAP .10UF 10V CERAMIC X7R 0603	0.1uF	10%	0603	Kemet	C0603C104K8RACTU	Yes	Yes
COUT1, COUT2	2	CAP CER 10UF 10V X7R 1206	10uF	10%	1206	Murata Electronics North America	GRM31CR71A106KA01L	Yes	Yes
CCOMP	1	CAP CER 330PF 50V C0G 0603	330pF	10%	0603	Murata Electronics North America	GCM1885C1H331JA16D	Yes	Yes
CCOMP1	1	CAP CER 22PF 50V 5% NP0 0603	22pF	5%	0603	Murata Electronics North America	GCM1885C1H220JA16D	Yes	Yes
ZFB1	1	CAP CER 4700PF 50V 10% X7R 0603	4700pF	10%	0603	Murata Electronics North America	GRM188R71H472KA01D	Yes	Yes
RCOMP	1	RES 12.4K OHM 1/10W 1% 0603 SMD	12.4K	1%	0603	Vishay/Dale	CRCW060312K4FKEA	Yes	Yes
RFB1	1	RES 100 OHM 1/10W 1% 0603 SMD	100	1%	0603	Vishay/Dale	CRCW0603100RFKEA	Yes	Yes
RFB2	1	RES 31.6 OHM 1/10W 1% 0603 SMD	31.6	1%	0603	Vishay/Dale	CRCW060331R6FKEA	Yes	Yes
RMIN1, RMIN2	2	-	Do Not Populate	-	1206	-	-	Yes	Yes
DFW	1	DIODE SCHOTTKY 4.0A 40V SMB	40V / 3.0A	N/A	MBR340MFS	ON Semiconductor	NRVB440MFST1G	No	Yes
DBST	1	DIODE SWITCH 200MA 75V SOD323	75V / 0.2A	N/A	SOD_323	ON Semiconductor	BAS16HT1G	No	Yes
L1	1	INDUCTOR POWER 4.7UH 4.5A SMD	4.7uH	4.5A	XAL4030-472	Coilcraft, Inc.	XAL4030-472ME	No	Yes
GND1 thur GND6	6	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
VIN, VOUT, EN	3	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
BST, COMP, FB, SW	4	CIRCUIT PIN PRNTD .020"D .425"L	Do Not Populate	N/A	TPA	Mill-Max Manufacturing Corp.	3128-2-00-15-00-00-08-0	Yes	Yes
NCV890230	1	2A 2MHz Automotive Buck Switching Reg.	NCV890230	N/A	SOIC8EP	ON Semiconductor	NCV890230	No	Yes