



Bill of Materials for the NV890131MWTXGEVB 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
CDRV, CBST	2	CAP .10UF 10V CERAMIC X7R 0603	0.1uF	10%	0603	Kemet	C0603C104K8RACTU	Yes	Yes
COU1, COU2	2	CAP CER 10UF 10V X7R 1206	10uF	10%	1206	Murata Electronics	GRM31CR71A106KA01L	Yes	Yes
CCOMP	1	CAP CER 330PF 50V COG 0603	330pF	10%	0603	Murata Electronics North America	GCM1885C1H331JA16D	Yes	Yes
CSNB	0	-	Do Not Populate	-	0603	-	-	Yes	Yes
RSNB	0	-	Do Not Populate	-	0603	-	-	Yes	Yes
ZFB1	1	CAP CER 4700PF 50V 10% X7R 0603	4700pF	10%	0603	Murata Electronics North America	GRM188R71H472KA01D	Yes	Yes
RCOMP	1	RES 6.81K OHM 1/10W 1% 0603 SMD	6.81K	1%	0603	Vishay/Dale	CRCW06036K81FKEA	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	0	-	Do Not Populate	-	1206	-	-	Yes	Yes
DFW	1	DIODE SCHOTTKY 1.5A 40V SMB	40V / 1.5A	N/A	SMB DIODE	ON Semiconductor	MBRS1540T3G	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 2.2A SMD	4.7uH	2.2A	WE_PD_L	Wurth Electronics Inc	7447785004	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, SYNCI, SYNCO	5	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
BST, COMP, FB, SW	0	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
NCV890130	1	1.2A 2MHz Automotive Buck Switching Regulator	NCV890131	N/A	10PINFNP5	ON Semiconductor	NCV890131MWTXG	No	Yes