



Bill of Materials for the NCV890103MWGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CBST, CDRV	2	CAP .10UF 10V CERAMIC X7R 0603	0.1uF	10%	0603	Kemet	C0603C104K8RACTU	Yes	Yes
CCOMP	1	CAP CER 330PF 50V C0G 0603	330pF	10%	0603	Murata Electronics North America	GCM1885C1H331JA16D	Yes	Yes
CDLY	1	CAP CER 0.47UF 25V 10% X7R 0603	0.47uF	10%	0603	Murata Electronics North America	GCM188R71E474KA64D	Yes	Yes
CFLT1, CFLT2, CVIN1	3	CAP CER 4.7UF 50V 10% X7R 1210	4.7uF	10%	1210	Murata Electronics North America	GRM32ER71H475KA88L	Yes	Yes
COUT1, COUT2	2	CAP CER 10UF 10V 10% X7R 1206	10uF	10%	1206	Taiyo Yuden	LMK316AB7106KLHT	Yes	Yes
CVIN2	1	CAP CER 1.0UF 50V X5R 0805	1.0uF	10%	0805	Murata Electronics North America	UMK212BJ105KG-T	Yes	Yes
DBST	1	DIODE SWITCH 200MA 75V SOD323	75V / 0.2A	-	SOD_323	ON Semiconductor	BAS16HT1G	No	Yes
DFW	1	DIODE SCHOTTKY 1.5A 40V SMB	40V / 1.5A	-	SMB_DIODE	ON Semiconductor	MBRS1540T1G	No	Yes
L1	1	INDUCTOR POWER 4.7UH 4.5A 20% SMD	4.7uH	4.5A	XAL4030-472	Coilcraft	XAL4030-472ME	No	Yes
* L2	1	RES 0.0 OHM 1/4W JUMP 1206 SMD	0	5%	1206	Yageo	RC1206JR-070RL	Yes	Yes
RCOMP	1	RES 6.98K OHM 1/10W 1% 0603 SMD	6.98K	1%	0603	Vishay/Dale	CRCW06036K98FKEA	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
RRSTB	1	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	1%	0603	Vishay/Dale	CRCW060310K0FKEA	Yes	Yes
ZFB1	1	CAP CER 4700PF 50V 10% X7R 0603	4700pF	10%	0603	Murata Electronics North America	GRM188R71H472KA01D	Yes	Yes
CSNB	0	Do Not Populate	Do Not Populate	-	0603	-	-	Yes	Yes
RMIN1, RMIN2	0	Do Not Populate	Do Not Populate	-	1206	-	-	Yes	Yes
RSNB	0	Do Not Populate	Do Not Populate	-	0603	-	-	Yes	Yes
BST, COMP, DLY, FB, RDEP, RMOD, SW	7	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
GND1, GND2, VIN, VOUT	4	CONN JACK BANANA UNINS PANEL MOU	N/A	N/A	BANANA	Emerson Network Power Connectivity Soltions	108-0740-001	Yes	Yes
GND3 thur GND6	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, RSTB	2	PIN INBOARD .042" HOLE 1000/PKG	N/A	N/A	TP	Vector Electronics	K24C/M	Yes	Yes
NCV890103	1	1.2A 2MHz Automotive Buck Switching Regulator	NCV890103	N/A	10PINDFNP5	ON Semiconductor	NCV890103MWTXG	No	Yes

* L2 is a placeholder footprint for an optional input inductor filter component. Boards are shipped with a shorting jumper installed to complete the input path.