



Bill of Materials for the NCV8855G Demo Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer's Part Number	Substitution Allowed	RoHS Compliant
CF21, CF22	2	CAP CER 22000PF 50V X7R 0603	22nF	10%	0603	Murata Electronics North America	GCM188R71H223KA37	YES	YES
CV11, CV12	2	CAP CER 1000PF 50V X7R 0603	1nF	10%	0603	Murata Electronics North America	GCM188R71H102KA37	YES	YES
CV21	1	CAP CER 3300PF 50V 10% X7R 0603	3.3nF	10%	0603	Murata Electronics North America	GRM188R71H332KA01D	YES	YES
CV22	1	CAP CER 2200PF 50V 10% X7R 0603	2.2nF	10%	0603	Murata Electronics North America	GRM188R71H222KA01D	YES	YES
C1, C4, C11, C17, C18, C19	6	CAP CER .47UF 50V X7R 0805	0.47uF	10%	0805	Murata Electronics North America	GRM21BR71H474KA88L	YES	YES
C2, C9, C10, C21	4	CAP CER .1UF 50V X7R 0603	0.1uF	10%	0603	Murata Electronics North America	GCM188R71H104KA57D	YES	YES
C3, C8	2	CAP 47UF 10V ELECT UD SMD	47uF	20%	UD_6.3x5.8	Nichicon	UUD1A470MCL1GS	NO	YES
C12, C15	2	CAP 330UF 10V ELECT UD SMD	330uF	20%	UD_8x10	Nichicon	UUD1A331MNL1GS	NO	YES
C20	1	CAP 1500UF 50V ELECT HE RADIAL	1500uF	20%	PM_16x40	Nichicon	UHE1H152MHD	NO	YES
D1	1	DIODE SCHOTTKY 4A 200V SMC	MBRS4201T3G	N/A	SMC_DIODE	ON Semiconductor	MBRS4201T3G	NO	YES
J1, J2, J3, J4	4	CONN JACK RF VERTICAL PCMTNT GOLD	SMB	N/A	SMB_CONN	Emerson Network Power Connectivity Solutions	131-3701-261	YES	YES
L1	1	INDUCTOR POWER 22UH 5.3A SMD	22uH	20%	WE_PD_L	Würth Electronics Inc	7447709220	NO	YES
L2	1	INDUCTOR POWER 33UH 3.2A SMD	33uH	20%	WE_PD_L	Würth Electronics Inc	744770133	NO	YES
Q1, Q2	2	MOSFET PWR P-CH LOG 15A 60V DPAK	NTD20P06L	N/A	MOS_DPAK	ON Semiconductor	NTD20P06LT4G	NO	YES
Q3, Q4	2	MOSFET N-CH 60V 24A DPAK	NTD24N06L	N/A	MOS_DPAK	ON Semiconductor	NTD24N06LT4G	NO	YES
RFA1, RFA2	2	RES 4.87K OHM 1/10W 1% 0603 SMD	4.87K	1%	0603	Vishay/Dale	CRCW06034K87FKEA	YES	YES
RFA3	1	RES 1.96K OHM 1/10W 1% 0603 SMD	1.96K	1%	0603	Vishay/Dale	CRCW06031K96FKEA	YES	YES
RFA4	1	RES 8.45K OHM 1/10W 1% 0603 SMD	8.45K	1%	0603	Vishay/Dale	CRCW06038K45FKEA	YES	YES
RFB1, RFB2	2	RES 1.74K OHM 1/10W 1% 0603 SMD	1.74K	1%	0603	Vishay/Dale	CRCW06031K74FKEA	YES	YES
RFB3	1	RES 3.16K OHM 1/10W 1% 0603 SMD	3.16K	1%	0603	Vishay/Dale	CRCW06033K16FKEA	YES	YES
RFB4	1	RES 2.43K OHM 1/10W 1% 0603 SMD	2.43K	1%	0603	Vishay/Dale	CRCW06032K43FKEA	YES	YES
RF01, RF02	2	RES 3.24K OHM 1/10W 1% 0603 SMD	3.24K	1%	0603	Vishay/Dale	CRCW06033K24FKEA	YES	YES
RF03, RF11, RF12	3	RES 10.2K OHM 1/10W 1% 0603 SMD	10.2K	1%	0603	Vishay/Dale	CRCW060310K2FKEA	YES	YES
RF04	1	RES 2.00K OHM 1/10W 1% 0603 SMD	2.00K	1%	0603	Vishay/Dale	CRCW06032K00FKEA	YES	YES
RF13	1	RES 2.00K OHM 1/10W 1% 0603 SMD	5.11K	1%	0603	Vishay/Dale	CRCW06032K00FKEA	YES	YES
RF14	1	RES 10.5K OHM 1/10W 1% 0603 SMD	10.5K	1%	0603	Vishay/Dale	CRCW060310K5FKEA	YES	YES
RF21, RF22	2	RES 10.0 OHM 1/10W 1% 0603 SMD	10.0	1%	0603	Vishay/Dale	CRCW060310R0FKEA	YES	YES
RT1, RT2, RT5	3	DO NOT POPULATE	OPEN	OPEN	0603	OPEN	DO NOT POPULATE	YES	YES
RO21, RO22	2	RES 665 OHM 1/4W 1% 1206 SMD	665	1%	1206	Vishay/Dale	CRCW1206665RFKEA	YES	YES
RS1, RS2	2	RES 0.15 OHM 0.75W 1% 1512 FC SMD	150m	1%	CC1512FC	Caddock Electronics, Inc.	CC1512FC-0.15-1%	NO	YES
RV11, RV12	2	RES 15.0K OHM 1/10W 1% 0603 SMD	15.0K	1%	0603	Vishay/Dale	CRCW060315K0FKEA	YES	YES
R8, R16	2	RES 10.0K OHM 1/10W 1% 0603 SMD	10.0K	1%	0603	Vishay/Dale	CRCW060310K0FKEA	YES	YES
TP2, TP3, TP4, TP5, TP6, TP10, TP12, TP13, TP14, TP16, TP17, TP18	12	TERM SOLDER TURRET .219" .109"L	T POINT S	N/A	TURRET	Mill-Max Manufacturing Corp.	2501-2-00-44-00-00-07-0	YES	YES
U1	1	Quad-Output Automotive System Power Supply IC with Integrated High Side 2A Switch	NCV8855G	N/A	QFN406x6	ON Semiconductor	NCV8855BMNR2G	NO	YES
X1	1	CONN HEADER 5POS .100 VERT GOLD	CON5	N/A	JP5	Molex/Waldom Electronics Corp	22-28-4053	YES	YES
X2, X5	2	Note 1	CON4	N/A	JP4T	Molex/Waldom Electronics Corp	Note 1	YES	YES
X6, X8, X10, X12	4	CONN HEADER 3POS .100 VERT GOLD	CON3	N/A	JP3	Molex/Waldom Electronics Corp	22-28-4033	YES	YES
X7	1	DO NOT POPULATE	POST	N/A	TP1AAA	Molex/Waldom Electronics Corp	DO NOT POPULATE	YES	YES
Shorting Jumpers for X2, X5, X6, X8, X10, X12	6	CONN JUMPER SHORTING GOLD	N/A	N/A	N/A	Sullins Connector Solutions	SSC02SYAN	YES	YES

Note 1: X2 and X5 are formed from two CONN HEADER 3POS .100 VERT GOLD (22-28-4033) plus one CONN HEADER 2POS .100 VERT GOLD (22-28-4023).

