



Bill of Materials for the NCV74300V3GEVK

NCV74300V3GEVK kit consists of	
1 x NCV74300V3 Evaluation Board	
1 x cable	

Board Materials

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	NCV7430SOIC-14	-	-	-	ON Semiconductor	NCV7430D20G	NO	YES
C1	1	50 V LIN FILTER CAPACITOR	100pF	5%	0603	Murata	GCM1885C1H101JA16D	YES	YES
C2	1	50 V VBB FILTER CAPACITOR	100nF	10%	0603	Murata	GCM188R71H104KA57D	YES	YES
C3	1	50 V VBAT FILTER CAPACITOR	10nF	10%	0603	Murata	GCM188R71H103KA37D	YES	YES
C4	1	50 V AUTO-ADDRESS SWITCH CAPACITOR	220pF	5%	0603	Murata	GCM1885C1H221JA16D	YES	YES
D1	1	REVERSE BATTERY DIODE	-	-	SMA Diode	ON Semiconductor	MRA4003T3	YES	YES
D2	1	FET PROTECTION DIODE	-	-	SOD 323	ON Semiconductor	MM3Z20VT1G	YES	YES
DN1	1	LIN BUS PROTECTOR	-	-	SOT23	ON Semiconductor	NUP1105LT1G	YES	YES
J1, J2	2	RJ22 RIGHT ANGLE SOCKET	-	-	FCI 87180 044L	-	87180 044LF	YES	YES
M1	1	AUTO-ADDRESS SWITCH	-	-	NTR0202PLT1G	ON Semiconductor	NTR0202PLT1G	NO	YES
M2	1	DRIVER SWITCH	-	-	2N7002WT1G	ON Semiconductor	2N7002WT1G	YES	YES
Q1, Q2, Q3	3	HIGH LED CURRENT DRIVER	-	-	NJVMJD253T4G	ON Semiconductor	NJVMJD253T4G	NO	YES
R4	1	PULL UP RESISTOR	24 k Ω	1%	0603	Vishay Dale	CRCW060324K0FKEA	YES	YES
R5	1	FET DRIVE RESISTOR	5.1 k Ω	1%	0603	Vishay Dale	CRCW06035K10FKEA	YES	YES
R6, R9, R12	3	HIGH CURRENT PROGRAM RESISTOR	1.2 Ω	1%	0805	Vishay Dale	CRCW08051R20FKEA	YES	YES
R7, R10, R13	3	HIGH CURRENT FEEDBACK RESISTOR	10 Ω	1%	0603	Vishay Dale	CRCW060310R0FKEA	YES	YES
R8, R11, R14	3	PNP DRIVE RESISTOR	100 Ω	1%	0603	Vishay Dale	CRCW0603100RFKEA	YES	YES
TP1, TP2, TP3, TP4	4	HIGH CURRENT CONNECTION	-	-	Turret	Mill Max	2501-2-00-44-00-00-07-0	YES	YES

Cable Materials

-	1	CABLE, FLAT, 5X2.46MM	30cm length	-	-	PRO POWER	HTC4038-1	NO	YES
-	2	4P4C RJ10 connectors	-	-	-	LUMBERG	P 126	NO	YES

Assembly Guide

