Bill of Materials for the NCV7685BCMR1GEVK Evaluation Kit

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Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Ceramic Capacitor SMD	100NF, 50V, X7R	10%	CAP0603	KEMET	C0603C104K5RAC	Yes	Yes
C2	1	Ceramic Capacitor SMD	10uF, 50V, X5R	10%	CAP1206	MURATA	GRM31CR61H106KA12L	Yes	Yes
D20, D21, D22, D23	4	LED DIODE GREEN	20mA	-	D0603	AVAGO TECHNOLOGIES	HSMG-C191	Yes	Yes
D60, D61, D62, D63	4	LED DIODE RED	20mA	-	D0603	KINGBRIGHT	KP-1608SURCK	Yes	Yes
CON_DIAG	1	Connector Header 5 pin	160V/8A 5Way	-	3.5mm	Phoenix Contact	MCV 1,5/5-G-3,5	Yes	Yes
CON-FCN	1	Connector Header 6 pin	160V/8A 6Way	-	3.5mm	Phoenix Contact	MCV 1,5/6-G-3,5	Yes	Yes
CON-KEY	1	Connector Header 2 pin	160V/8A 2Way	-	3.5mm	Phoenix Contact	MCV 1,5/2-G-3,5	Yes	Yes
SCOPEGND1, SCOPEGND2	2	Wire Bridge	SCOPEGND	-	SCOPEGND	AMPHENOL	FCI - 75160-105-36LF	Yes	Yes
BatteryInput	1	CON POWER DC10AS	2.5mm 2A 12V	-	SMD DC-10AS	Cliff Electronic	DC-10AS+DCPP1	Yes	Yes
STOP	1	Push Button RED	SPST-NO 0.1A 32V	-	D6RxxLFS	C&K	D6R40 F1 LFS	Yes	Yes
Reverse, TAIL, TURN	3	Switch SPDT	SPDT	-	Through Hole	Multicomp	1MS1T1B1M1QE	Yes	Yes
IGNITION	1	Key switch	2 possition SPDT 0.4VA	-	Through Hole	NKK Switches	SK12BG13-ND	Yes	Yes
Q1, Q2, Q6	3	Digital Transistor Array 2xNPN	R1=10k / R2 = [illegible]	-	SOT363	ON Semiconductor	MUN5215DW1T1G	Yes	Yes
Q4, Q5	2	Transistor Power Mosfet	P-MOS, -60V, -14A	-	WDFN8	ON Semiconductor	NVTFS5116PLTWG	Yes	Yes
R40, R41, R50, R51	4	SMD Resistor	10k, 0603, 63mW	5%	R0603	PHYCOMP	232270260103	Yes	Yes
R20, R21, R22, R23, R30, R31, R32, R33, R60, R61, R62, R63	13	SMD Resistor	1k, 0603, 63mW	1%	R0603	MULTICOMP	MCWR06X1001FTL	Yes	Yes
R60, R61, R62, R63	4	SMD Resistor	8.06k, 0603, 100mW	1%	R0603	MULTICOMP	MCWR06X8061FTL	Yes	Yes

Accessories:

Standoff - board	8	Spacer	3.0M, 10mm 6.6 Nylon	-	SPACER_3.0_10 mm	DURATOOL	D01489	Yes	Yes
Screw board	4	Machine Crew	(Polyamide 6.6)	-	10mm	DURATOOL	119030010	Yes	Yes
Light Pipe	9	LED Light Pipe Vert SMD Flat Face	Transparent	-	10.2mm	BIVAR	VLP-400-F	Yes	Yes
Box	1	3D printed box	Custom Made	-	100 x 80mm	-	custom made	Yes	Yes
Label	1	sticker label with decription	Custom Made	-	100x80mm	-	custom made	Yes	Yes