



## Bill of Materials for the NCV7680PWR22GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	NCV7680 (SOW-16 epad)	-	-	751R_02_B	ON Semiconductor	NCV7680PWR2G	No	Yes
U2	1	NTD2955	-	-	DPAK3_SMD	ON Semiconductor	NTD2955T4G	No	Yes
U3, (D25, D26)	2	MRA4003	-	-	SMA_DIODE	ON Semiconductor	MRA4003T3G	No	Yes
D1-D24	24	Superflux LED (Lumileds)	Amber	-	LED_SUPERFLUX	Philips	HPWN-BL00-0002	No	Yes
C1,C2	2	Input / Output Capacitor	1 $\mu$ F, 50V, X7R	10%	1210	KEMET	C1210C105K3RACTU	Yes	Yes
C3	1	Debounce Capacitor	10 nF, 50V, X7R	10%	805	AVX	08055C103KAT	Yes	Yes
C4	1	Loop Stabization Capacitor	0.22 $\mu$ F, 50V, X7R	10%	805	Murata	GCM21BR71H224KA37L	Yes	Yes
R1, R2	2	Logic I/O Resistor	10 k $\Omega$	1%	805	Yageo America	RC0805FR-0710KL	Yes	Yes
R3	1	Stop Current Program Resistor	3.09 k $\Omega$	1%	805	Yageo America	RC0805FR-073K09L	Yes	Yes
R4	1	Tail Current Program Resistor	2.21 k $\Omega$	1%	805	Yageo America	RC0805FR-072K21L	Yes	Yes
R7	1	VP Program Resistor	8.87 k $\Omega$	1%	805	Yageo America	RC0805FR-078K87L	Yes	Yes
R5, R6, R8	3	VP Support Resistor	1 k $\Omega$	1%	805	Yageo America	RC0805FR-071KL	Yes	Yes
J16	1	Jumper Posts	100 mil spacing	-	SIP10	Molex Electronics Corp	22-28-4103	Yes	Yes
J1-J15	30	Jumper Posts	100 mil spacing	-	JMP	Molex Electronics Corp	22-28-4023	Yes	Yes
J1-J15	15	Jumper	-	-	-	Sullins Electronic Corp	SSC02SYAN	Yes	Yes
TP1-TP10	10	Connector Posts	-	-	TURRET	Vector Electronics	K24C/M	Yes	Yes
SW1	1	Ballast FET enable switch (3PDT)	-	-	NKK_3PDT_M2032	NKK of America	M2032SS1W03-RO	Yes	Yes
SW1, SW2	2	STOP / Tail control switch (SPDT)	-	-	C&K_7101	C&K	7101SYCQE	Yes	Yes