

NCV7683GEVB

BILL OF MATERIALS

Table 4. NCV7683 DAISY CHAIN EVALUATION BOARD BILL OF MATERIALS

Designator	Qty	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed
C1, C2	2	Loop Stabilization Capacitor	0.22 μ F	10%	0805	KEMET	C0805C224K5RACTU	Yes
C3, C4	2	Input Capacitor	0.68 μ F	10%	0805	KEMET	C0805C684K5RACTU	Yes
C5, C6	2	Debounce Capacitor	10 nF	10%	0805	KEMET	C0805C103K5RACTU	Yes
C10, C11	2	LED Storage Capacitor	100 nF	10%	0805	KEMET	C0805C104K5RACTU	Yes
D1–D24	24	Display LEDs	led_diode	---	G6SP	OSRAM	LRG6SP–CADB–1–1	Yes
D25–D29	5	Steering Diode	MRA4003	---	SMA_DIODE	ON Semiconductor	MRA4003T3G	Yes
D30, D31	1	DIAG Reporting LED	led_diode	---	0805	LITE–ON INC	LTST–C171GKT	Yes
J1–J4, J9, J10, J12–J19, J50	15	Jumper Posts 100 mil spacing	JUMPER	---	JMP	3M	961102–6404–AR	Yes
J1–J4, J9, J10, J12–J19, J50	15	Jumper	---	---	N/A	SULLINS CONNECTOR SOLUTIONS	QPC02SXGN–RC	Yes
J5–J8	4	Jumper 300 mil spacing	JUMPER	---	JMP300	MILL–MAX	999–11–113–10–000000	Yes
J11	1	Banana Jack	Vbat	---	BANANA	CINCH CONNECTIVITY SOLUTIONS	108–0740–001	Yes
J24	1	Banana Jack	GND	---	BANANA	CINCH CONNECTIVITY SOLUTIONS	108–0740–001	Yes
Q1, Q2	2	Sequencing Transistor Switch	2N7002W	---	SOT23M4	ON Semiconductor	ONC 2N7002WT1G/BKN	Yes
R1, R2, R22	3	Logic Resistors	1K	1%	0805	VISHAY DALE	CRCW08051K00FKEA	Yes
R3, R4, R7, R10, R17–R21, R25	12	Logic & Programming Resistors	10K	1%	0805	VISHAY DALE	CRCW080510K0FKEA	Yes
R5, R8	2	RSTOP Program Resistor	3.01K	1%	0805	VISHAY DALE	CRCW08053K01FKEA	Yes
R6, R9	2	RTAIL Program Resistor	1.62K	1%	0805	VISHAY DALE	CRCW08051K62FKEA	Yes
R11, R13	2	Vstring Program Resistor	9.53K	1%	0805	VISHAY DALE	CRCW08059K53FKEA	Yes
R12, R14	2	Vstring Program Resistor	1K	1%	0805	VISHAY DALE	CRCW08051K00FKEA	Yes
R15	1	DIAG LED Current Setting Resistor	4.99k	1%	0805	VISHAY DALE	CRCW08054K99FKEA	Yes
SW1–SW8	8	User Interface Switches	STOP	---	MINITOGGLE	C & K COMPONENTS	T101MH9CBE	Yes
TP6–TP8	3	RCL Test Inputs	---	---	TP	KEYSTONE ELECTRONICS	5010	Yes
TP9	1	DIAG Pin Test Point	---	---	TP	KEYSTONE ELECTRONICS	5010	Yes
U1, U2	2	NCV7683 (SSOP–24 epad)	---	---	SSOP24NB_EP	ON Semiconductor	NCV7683DQR2G	No
U3, U4	2	NVD2955	---	---	DPAK3_SMD	ON Semiconductor	NVD2955T4G	No