



Bill of Materials for the NCV7683GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2	2	Loop Stabilization Capacitor	0.22tF	10%	805	KEMET	C0805C224K5RACTU	Yes	Yes
C3, C4	2	Input Capacitor	0.68 1tF	10%	805	KEMET	C0805C684K5RACTU	Yes	Yes
C5, C6	2	Debounce	10 nF	10%	805	KEMET	C0805C 103K5RACTU	Yes	Yes
c10_en	2	LED Storage Capacitor	100 nF	10%	805	KEMET	C0805C 104K5RACTU	Yes	Yes
01-024	24	Display LEOs	led_diode	--	G6SP	OSRAM	LRG6SP-CADB-1- 1	Yes	Yes
025-029	5	Steering Diode	MRA4003	--	SMA_DIODE	ON Semiconductor	MRA4003T3G	Yes	Yes
030, 031	1	DIAG Reporting LED	led_diode	--	805	LITE-ON INC	LTST-C171GKT	Yes	Yes
J1-J4, J9, J10. J12-J20, J50	16	Jumper Posts 100 mil spacing	JUMPER	--	JMP	3M	961102-6404-AR	Yes	Yes
J1-J4, J9, J10. J12-J20. J50	16	Jumper	---	--	N/A	SULLINS CONNECTOR SOLUTIONS	OPC02SXGN-RC	Yes	Yes
J5-J8	4	Jumper 300 mil spacing	JUMPER	--	JMP300	MILL-MAX	999-11-113-10-000000	Yes	Yes
J11	1	Banana Jack	Vbat	--	BANANA	CINCH CONNECTIVITY SOLUTIONS	108-0740-001	Yes	Yes
J24	1	Banana Jack	GND	---	BANANA	CINCH CONNECTIVITY SOLUTIONS	108-0740-001	Yes	Yes
102	2	Sequencing Transistor Switch	2N7002W	---	SOT23M4	ON Semiconductor	ONC 2N7002WT1 G/BKN	Yes	Yes
R1, R2, R22	3	Logic Resistors	1K	1%	805	VISHAY DALE	CRCW08051K00FKEA	Yes	Yes
R3, R4, R7, R10, R17-R21, R25	12	Logic & Programming Resistors	10K	1%	805	VISHAY DALE	CRCW080510K0FKEA	Yes	Yes
R5, R8	2	RSTOP Program Resistor	3.01K	1%	805	VISHAY DALE	CRCW08053K01FKEA	Yes	Yes
R6, R9	2	RTAIL Program Resistor	1.62K	1%	805	VISHAY DALE	CRCW08051K62FKEA	Yes	Yes
R11, R13	2	Vstring Program Resistor	9.53K	1%	805	VISHAY DALE	CRCW08059K53FKEA	Yes	Yes
R12,R14	2	Vstring Program Resistor	1K	1%	805	VISHAY DALE	CRCW08051K00FKEA	Yes	Yes
R15, R16	1	DIAG LED Current Setting Resistor	4.99k	1%	805	VISHAY DALE	CRCW08054K99FKEA	Yes	Yes
SW1-SW8	8	User Interface Switches	STOP	---	MINITOGGLE	C&K COMPONENTS	T101MH9CBE	Yes	Yes
TP6-TP8	3	RCL Test Inputs	---	---	TP	KEYSTONE ELECTRONICS	5010	Yes	Yes
TP9	1	DIAG Pin Test Point	---	---	TP	KEYSTONE ELECTRONICS	5010	Yes	Yes
U1, U2	2	NCV7683 (SSOP-24 epad)	---	---	SSOP24NB_EP	ON Semiconductor	NCV7683DOR2G	No	Yes
U3,U4	2	NVD2955	---	--	DPAK3_SMD	ON Semiconductor	NVD2955T4G	No	Yes