



Bill of Materials for the NCV7755GEVB Evaluation Board

Designator (Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
R1,R2,R3,R4,R5	5	510 Ohms ±1% 0.125W, 1/8W Chip Resistor 0805	510 Ohms	±1%	0805	Panasonic	ERJ-6ENF5100V	No	Yes
R6,R7,R8	3	4.7 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	4.7k Ohms	±1%	0805	Panasonic Electronic Components	ERJ-6ENF4701V		Yes
R9	1	10 Ohms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	10 Ohms	±1%	0805	Panasonic Electronic Components	ERJ-6ENF10R0V		Yes
R10	1	10 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	10 kOhms	±1%	0805	Panasonic Electronic Components	ERJ-6ENF1002V		Yes
J1	1	Power Barrel Connector Jack 2.50mm ID (0.098"), 5.50mm OD (0.217") Through Hole, Right Angle			PWRJACK	CUI Devices	PJ-102B		Yes
J2,J3,J4,J5,J29,J30,J31,J32	8	2 Position Wire to Board Terminal Block Horizontal with Board 0.200" (5.08mm) Through Hole			MKDSN	Phoenix Contact	1985865		Yes
C1	1	0.33µF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	0.33µF	±10%	0805	Murata Electronics	GCM219R71H334KA55D		Yes
C2	1	1µF ±10% 16V Ceramic Capacitor X7R 0805 (2012 Metric)	1µF	±10%	0805	Samsung Electro-Mechanics	CL21B105KOFNNG		Yes
C4,C7,C8	3	10µF ±20% 50V Ceramic Capacitor X5R 0805 (2012 Metric)	10µF	±20%	0805	Murata Electronics	GRM21BR61H106ME43L		Yes
C3,C5,C6,C9	4	0.1µF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric) Automotive AEC-Q200	0.1µF	±10%	0805	Murata Electronics	GCD21BR71H104KA01L		Yes
C10,C11,C12,C13,C14,C15,C16,C17	8	10000pF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric) Automotive AEC-Q200	10000pF ±10C-F	±10%	0805	Yageo	AC0805KRX7R9BB103		Yes
Q1	1	Bipolar (BJT) Transistor NPN 40V 200mA 300MHz 300mW Surface Mount SOT-23-3 (TO-236)			SOT-23	onsemi	SMMBT3904LT1G		Yes
TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20	20	White PC Test Point, Miniature Phosphor Bronze, Silver Plating 0.040" (1.02mm) Hole Diameter Mounting Type			TP-HOOK	Keystone Electronics	5002		Yes
J6,J7,J8,J9,J10,J11,J13,J14,J15,J16,J17,J18,J19,J20,J21,J22,J23,J24,J25,J26,J27,J28	22	Connector Header Through Hole 2 position 0.100" (2.54mm)			HEADER-2	Sullins Connector Solutions	PRPC002SAAN-RC		Yes
J12	1	Connector Header Through Hole 3 position 0.100" (2.54mm)			HEADER-3	TE Connectivity AMP Connectors	5-146280-3		Yes
U1	1	40PC Female pin headers for Arduino Nano			HEADER-15	Chip Quik Inc.	HDR100IMP40F-G-V-TH		Yes
U2	1	Octal High Side Driver			SSOP24-NB-EP	onsemi	NCV7755		Yes
U3	1	Linear Voltage Regulator IC Positive Fixed 1 Output 1A DPAK			DPAK3	onsemi	MC7805BDTG		Yes
D1,D2	2	Diode Schottky 50V 2A Surface Mount DO-214AA (SMB)	50V, 2A		SMB	onsemi	SS25		Yes
Female headers for Arduino	2	20PCS 2.54mm Breakaway PCB Board 40Pin Male and Female Header Connector			Header, 2.54mm (100mil)	OCR	dz-pz-01		Yes