

Bill of Materials for the NCV78763R1DAGEVB Evaluation Board



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1,C7,C8	3	Ceramic Capacitor SMD	470nF, 16V, X7R	10%	CAP0603	TDK	C1608X7R1C474K080AC	YES	YES
C2,C9	2	Ceramic Capacitor SMD	100nF, 100V, X7R	10%	CAP0805	AVX	08051C104KAZ2A	YES	YES
C5	1	Ceramic Capacitor SMD	10µF, 50V, X7R	10%	CAP1210	KEMET	C1210C106K5RACTU	YES	YES
C6	1	Ceramic Capacitor SMD	470nF, 100V, X7R	10%	CAP0805	AVX	08051C474K4Z2A	YES	YES
C12,CC1	2	Ceramic Capacitor SMD	100nF, 25V, X7R	10%	CAP0603	TDK	C1608X7R1E104K080AA	YES	YES
CC2	1	Ceramic Capacitor SMD	2.2nF,50V,C0G	10%	CAP0603	MURATA	GRT1885C1H222JA02D	YES	YES
C18	1	Electrolytic Capacitor SMD	22µF, 100V	20%	PANASONIC_FC_F	PANASONIC	EEETG2A220UP	YES	YES
C13,C14,C15, C16,C17	5	Ceramic Capacitor SMD	2.2µF,100V,X7R	10%	CAP1210	KEMET	C1210C225K1RACTU	YES	YES
R1,R4,R12	3	Resistor SMD	0R0, 0.5W	1%	R1210	VISHAY	CRCW12100000ZSTA	YES	YES
R2,R6,R13	3	Resistor SMD	100k, 0.125W	1%	R0805	VISHAY	CRCW0805100KFKEA	YES	YES
R3,R7	2	Resistor SMD	2.0K, 0.1W	1%	R0603	VISHAY	CRCW06032K00FKEA	YES	YES
R8,R9,RC1	3	Resistor SMD	10k, 0.1W	5%	R0603	YAGEO	RC0603JR-0710KL	YES	YES
R10,RC2	2	Resistor SMD	100k, 0.1W	5%	R0603	YAGEO	RC0603JR-07100KL	YES	YES
R11	1	Resistor SMD	4R7, 0.1W	1%	R0603	MULTICOMP PRO	MCWR06W4R70FTL	YES	YES
R14	1	Resistor SMD	1R0, 0.25W	1%	R0805	WELWYN	LRCS0805-1RF15	YES	YES
RS1,RS2	2	Resistor SMD	0R22, 1W	1%	R1210	VISHAY	RCWE1210R220FKEA	YES	YES
RS3	1	Resistor SMD	0R01, 1W	1%	R1206	PANASONIC	ERJ8CWF0R10V	YES	YES
L1,L2	2	Inductor SMD	100µH, 2.2A, 280mΩ	20%	10.85mm x 10.00mm	CYNTEC	VCUW104T-101MS63	YES	YES
L3	1	Inductor SMD	10µH, 8.4A, 24mΩ	20%	10.85mm x 10.00mm	CYNTEC	VCHA105D-100MS6	YES	YES
J_BCKx_R	2	STRAIGHT HEADER TH	Dual Row 2x6 Pin		2x6 Pin, 2.54mm	WURTH	61301221121	YES	YES
J_BCKx_L	2	STRAIGHT HEADER TH	Dual Row 2x8 Pin		2x8 Pin, 2.54mm	WURTH	61301621121	YES	YES
D1,D2	2	Shottky Power Rectifier SMD	Shottky Diode 2A/100V		SMB	ON SEMICONDUCTOR	NBRS2H100T3G	YES	YES
D3	1	Shottky Power Rectifier SMD	Shottky Diode 5A/100V		DFN5	ON SEMICONDUCTOR	NRVB5H100MFS	YES	YES
Q1	1	Power MOSFET SMD	N channel, 55A, 100V, 0.0105Ω, logic level		DFN5	ON SEMICONDUCTOR	NVMFS6B14L	YES	YES
U1	1	NCV78763 LED Driver	Boost + 2x1.6A Buck		SSOP36-EP	ON SEMICONDUCTOR	NCV78763DQ9R2G	No	YES
U2	1	EEPROM Serial-SPI	32K-Bit 4K X 8		TSSOP8	ON SEMICONDUCTOR	CAV25320YE-GT3	YES	YES