

Bill of Materials for the NCV78964R1DAGEVB Evaluation Board



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Ceramic Capacitor SMD	47nF, 50V, X7R	10%	CAP0603	Würth Elektronik	X7R0603473K050DFCT10000; 885012206093	YES	YES
C2,C20	1	Ceramic Capacitor SMD	470pF, 50V, NP0	5%	CAP0603	Würth Elektronik	NP00603471J050DFCT10000; 885012006061	YES	YES
C3,C4,C10,C11	4	Ceramic Capacitor SMD	470nF, 16V, X7R	10%	CAP0603	Würth Elektronik	X7R0603474K016DFCT10000; 885012206050	YES	YES
C7,C14,CB1,CB2,CB3,CB4,CB5,CB6	8	Ceramic Capacitor SMD	2.2µF, 100V, X7R	10%	CAP1210	Würth Elektronik	X7R1210225K100DFCT10000; 885012209071	YES	YES
C8,C15	2	Ceramic Capacitor SMD	100nF, 100V, X7R	10%	CAP0805	Würth Elektronik	X7R0805104K100DFCT10000; 885012207128	YES	YES
C17	1	Ceramic Capacitor SMD	100nF, 50V, X7R	10%	CAP0603	Würth Elektronik	X7R0603104K050DFCT10000; 885012206095	YES	YES
CV1,CV2	2	Ceramic Capacitor SMD	10µF, 50V, X7R	10%	CAP1210	Würth Elektronik	X7R1210106K050DFCT10000; 885012209073	YES	YES
R2,R7,R14,R25,R36,RG1,RG2	7	Resistor SMD	0R0, 0.1W	1%	R0603	YAGEO	RC0603JR-070RL	YES	YES
R3,R8	2	Resistor SMD	0R01, 1W	1%	R1206	PANASONIC	ERJ8CWFR010V	YES	YES
R6	1	Resistor SMD	3k3, 0.1W	1%	R0603	VISHAY	CRCW06033K30FKEA	YES	YES
R9,R18	2	Resistor SMD	0R0, 0.1W	1%	R0805	WELVYN	WCR0805-R005JI	YES	YES
R13,R24,R30,R31,R32,RV1,RV2	7	Resistor SMD	0R0, 0.5W	1%	R1210	PANASONIC	ERJ14Y0R00U	YES	YES
R16,R27	2	Resistor SMD	100k, 0.125W	1%	R0805	BOURNS	CR0805-FX-1003ELF	YES	YES
R19,R29	2	Resistor SMD	2k, 0.1W	1%	R0603	PANASONIC	ERA3AEB202V	YES	YES
RB1	1	Resistor SMD	100k, 0.1W	5%	R0603	YAGEO	RC0603JR-07100KL	YES	YES
RU1,RU2,R37	2	Resistor SMD	10k, 0.1W	5%	R0603	YAGEO	RC0603JR-0710KL	YES	YES
RT1	1	NTC Thermistor SMD	10k	1%	R0603	TDK	NTCG163JF103HTDS	YES	YES
L1,L2	2	Power Inductor Shielded SMD	10µH, 10.4A, 17.8mΩ, AEC-Q200	20%	12.6x12.6x6.3mm	Würth Elektronik	WE-LHCA 784 373 865 100	YES	YES
L3,L4	2	Power Inductor Shielded SMD	47µH, 2.26A, 123mΩ, AEC-Q200	20%	10x10x5mm	Würth Elektronik	WE-PDA 7847714470	YES	YES
J_BST_Lx	3	STRAIGHT HEADER TH	Dual Row 2x4 Pin		2x4 Pin, 2.54mm	WURTH	WE61300821121	YES	YES
J_BST_Rx	3	STRAIGHT HEADER TH	Dual Row 2x6 Pin		2x6 Pin, 2.54mm	WURTH	WE61301221121	YES	YES
P1,P2	2	VERTICAL PCB HEADER TH	WR-TBL Serie 311		2 Pin, 5.08mm	WURTH	691311500102	YES	YES
D1,D2	2	Power Schottky Diode SMD	5A, 100V		DFNW5/SO8FL	ON SEMICONDUCTOR	NRVB5H100MFST3G	No	YES
Q1,Q2	2	Power MOSFET SMD	N-channel, 32A, 80V, 0.02Ω		DFNW5/SO8FL	ON SEMICONDUCTOR	NVMFS6H858NLWFT1G	No	YES
U1	1	NCV78964 LED Driver	2 phase Booster + 2 channel Buck		TSSOP38EP	ON SEMICONDUCTOR	NCV78964PA0R2G	No	YES
U2	1	EEPROM Serial-SPI	32K-Bit 4K X 8		TSSOP8	ON SEMICONDUCTOR	CAV25320YE-GT3	YES	YES