

Bill of Materials for the NCV78902R2DAGEVB 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	Kyocera AVX	06035C473KAZ2A	YES	YES
C2,C5	2	Ceramic Capacitor SMD	470pF, 50V, NP0	5%	CAP0603	KEMET	C0603C471J5GAC	YES	YES
C3,C4	2	Ceramic Capacitor SMD	10µF, 100V, X7S	10%	CAP1210	KEMET	GRM32EC72A106KE05K	YES	YES
CB1,CB2,CB3, CB4,CB5,CB6, CB7,CB8	8	Ceramic Capacitor SMD	2.2µF, 100V, X7R	10%	CAP1210	KEMET	C1210C225K1RACTU	YES	YES
CD1,CD2	2	Ceramic Capacitor SMD	470nF, 16V, X7R	10%	CAP0603	TDK	C1608X7R1C474K080AC	YES	YES
CDU	1	Ceramic Capacitor SMD	100nF, 50V, X7R	10%	CAP0805	KEMET	C0603C104K5RAC	YES	YES
CV1,CV2	2	Ceramic Capacitor SMD	10µF, 50V, X7R	10%	CAP1210	KEMET	C1210C106K5RACTU	YES	YES
R1,R2	2	Resistor SMD	0R0, 0.1W	1%	R0805	WELVYN	WCR0805-R005JI	YES	YES
R5,R9,R14,RV1, RV2	5	Resistor SMD	0R0, 0.5W	1%	R1210	PANASONIC	ERJ14Y0R00U	YES	YES
R7,R10,RG1,RG2	4	Resistor SMD	0R0, 0.1W	1%	R0603	YAGEO	RC0603JR-070RL	YES	YES
R12	1	Resistor SMD	3k3, 0.1W	1%	R0603	VISHAY	CRCW06033K30FKEA	YES	YES
R16	1	Resistor SMD	10k, 0.1W	5%	R0603	YAGEO	RC0603JR-0710KL	YES	YES
RB1	1	Resistor SMD	100k, 0.1W	5%	R0603	YAGEO	RC0603JR-07100KL	YES	YES
RS1,RS2	2	Resistor SMD	0R01, 1W	1%	R1206	PANASONIC	ERJ8CWFR010V	YES	YES
RT1	1	NTC Thermistor	10k, AEC-Q200	1%	R0603	TDK	NTCG163JF103HTDS		
RU1,RU2	2	Resistor SMD	10k, 0.1W	5%	R0603	YAGEO	RC0603JR-0710KL	YES	YES
L1,L2	2	Power Coupled Inductor Shielded SMD	10µH, 13A, 13.9mΩ	20%	15.5x13.2x12.5mm	Würth Elektronik	WE-CFWI 74485540101	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
D1,D2	2	Power Schottky Diode SMD	10A, 100V		DFNW5/SO8FL	ON SEMICONDUCTOR	NRVB10100MFST1G	No	YES
Q1,Q2	2	Power MOSFET SMD	N-channel, 32A, 80V, 0.02Ω		DFNW5/SO8FL	ON SEMICONDUCTOR	NVMFS6H858NLWFT1G	No	YES
U1	1	NCV78902 LED Driver	2 phase Booster		TSSOP-16 WB	ON SEMICONDUCTOR	NCV78902DE0R2G	No	YES
U2	1	EEPROM Serial-SPI	32K-Bit 4K X 8		TSSOP8	ON SEMICONDUCTOR	CAV25320YE-GT3	YES	YES