

Bill of Materials for the NCV78703R1DAGEVB Evaluation Board



Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CD1,CD2	2	Ceramic Capacitor SMD	470nF, 16V, X7R	10%	CAP0603	TDK	C1608X7R1C474K080AC	YES	YES
CC1,CD3,CDU	3	Ceramic Capacitor SMD	100nF, 50V, X7R	10%	CAP0805	KEMET	C0603C104K5RAC	YES	YES
CV1,CV2,CV3	3	Ceramic Capacitor SMD	10µF, 50V, X7R	10%	CAP1210	KEMET	C1210C106K5RACTU	YES	YES
CC2	1	Ceramic Capacitor SMD	2.2nF,50V,C0G	10%	CAP0603	MURATA	GRT1885C1H222JA02D	YES	YES
CB	1	Electrolytic Capacitor SMD	22µF,100V	20%	PANASONIC_FC_F	PANASONIC	EEETG2A220UP	YES	YES
CB1,CB2,CB3, CB4,CB5,CB6	6	Ceramic Capacitor SMD	2.2µF,100V,X7R	10%	CAP1210	KEMET	C1210C225K1RACTU	YES	YES
RV1,RV2,RV3	3	Resistor SMD	0R0, 0.5W	1%	R1210	VISHAY	CRCW12100000ZSTA	YES	YES
RC1,RU1,RU2	3	Resistor SMD	10k, 0.1W	5%	R0603	YAGEO	RC0603JR-0710KL	YES	YES
RB1,RC2	2	Resistor SMD	100k, 0.1W	5%	R0603	YAGEO	RC0603JR-07100KL	YES	YES
RG1,RG2,RG3	3	Resistor SMD	4R7, 0.1W	1%	R0603	MULTICOMP PRO	MCWR06W4R70FTL	YES	YES
RB2	1	Resistor SMD	1R0, 0.25W	1%	R0805	WELWYN	LRCS0805-1RFT5	YES	YES
RD1	1	Resistor SMD	107k, 0.1W	1%	R0603	VISHAY	CRCW0603107KFKEA	YES	YES
RD2	1	Resistor SMD	3.24k, 0.1W	1%	R0603	VISHAY	CRCW06033K24FKEA	YES	YES
RS1,RS2,RS3	3	Resistor SMD	0R01, 1W	1%	R1206	PANASONIC	ERJ8CWFR010V	YES	YES
L1,L2,L3	3	Inductor SMD	10µH, 8.4A, 24mΩ	20%	10.85mm x 10.00mm	CYNTEC	VCHA105D-100MS6	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
ZD	1	ZENER DIODE	ZENER DIODE 5.1V/500mW		SOD523	ON SEMICONDUCTOR	MM5Z5V1T1G	YES	YES
D1,D2,D3	3	Shotky Power Rectifier SMD	Shotky Diode 5A/100V		DFN5	ON SEMICONDUCTOR	NRVB5H100MFS	YES	YES
Q1,Q2,Q3	3	Power MOSFET SMD	N channel, 55A, 100V, 0.0105Ω, logic level		DFN5	ON SEMICONDUCTOR	NVMFS6B14L	YES	YES
U1	1	NCV78703 LED Driver	3 phase Booster		QFN24 4x4mm	ON SEMICONDUCTOR	NCV78703MW1R2G	No	YES
U2	1	EEPROM Serial-SPI	32K-Bit 4K X 8		TSSOP8	ON SEMICONDUCTOR	CAV25320YE-GT3	YES	YES