Bill of Materials for the NCV7424V1GEVB Evaluation Board

ON Semiconductor®

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
Cbat, Cd5	2	Ceramic Capacitor SMD	2.2UF, 50V, X7R	10%	1206	KEMET	C1206C225K5RAC	Yes	Yes
Cvbb	1	Ceramic Capacitor SMD	100NF, 50V, X7R	10%	0603	KEMET	C0603C104K5RAC	Yes	Yes
Cl1, Cl2, Cl3, Cl4	4	Ceramic Capacitor SMD	1.0NF, 50V, X7R	10%	0603	EPCOS	B37931K5102K60	Yes	Yes
Ren	1	Resistor SMD	10k	5%	0603	PHYCOMP	232270260103	Yes	Yes
Rl1, Rl2, Rl3, Rl4, Rvio	5	Resistor SMD	0.0R	-	0603	YAGEO	RC0603JR-070RL	Yes	Yes
Rup1a, Rpu1b, Rpu2a, Rpu2b, Rpu3a, Rpu3b, Rpu4a, Rpu4b	8	Resistor SMD	2.0k	1%	1206	WELVYN	WCR 1206 2K 1%	Yes	Yes
Rx	1	Resistor Array SMD	10k	5%	1206	PHYCOMP	235003510103	Yes	Yes
Drev, Dpu12, Dpu34	3	Dual High Speed Diode	85V, 200mA	-	SOT23	ON SEMICONDUCTOR	BAW56LT1G	Yes	Yes
U1	**1**	**Quad LIN Transceiver**	**NCV7424**	**-**	**TSSOP16**	**ON SEMICONDUCTOR**	**NCV7424DB0R2G**	**No**	**Yes**
U5	1	Low-Drop Voltage Regulator	5.0 V, 30 mA	4%	TSOP-5	ON SEMICONDUCTOR	NCV4294CSN50	Yes	Yes
GND	1	SCOPEGND	LINK, SHORTING, 0.4"	-	SCOPEGND	Harwin	D3082F05	Yes	Yes
EN_hi	1	HEADER 1 ROW 2 PINS	JUMPER2_TH	-	X2APH	TYCO/AMP	5-826936-0	Yes	Yes
IO_HV	1	SIL HEADER 6 pins, Right Angle	HEADER 1X6 ANGLE	-	X6APH_ANGLE	SAMTEC	TSW-106-08-F-S-RA	Yes	Yes
IO_LV	1	SIL HEADER 12 pins, Right Angle	HEADER 1X12 ANGLE	-	X12APH_ANGLE	SAMTEC	TSW-112-08-F-S-RA	Yes	Yes