



Bill of Materials for the NCV7425V1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	0	Capacitor SMD	1.0nF	10%	0805	PHYCOMP	2238 580 15623	Yes	Yes
R1, R2	2	Resistor SMD	2.0K 1206 0.25W	2%	1206	WELWYN	WCR 1206 2K 2%	Yes	Yes
R3, R5	2	Resistor SMD	10k	1%	0805	MULTICOMP	MC 0.1W 0805 1% 10K	Yes	Yes
C7	1	Capacitor SMD	10nF	10%	0603	EPCOS	B37931K5103K60	Yes	Yes
C5	1	Capacitor SMD X7R	10uF 10V X7R	10%	1206	KEMET	C1206C106K8RAC	Yes	Yes
C3	1	Electrolytic Capacitor SMD	10uF 50V	20%	Radial, Can - SMD	NICHICON	UUD1H100MCL1GS	Yes	Yes
R4	1	Resistor SMD	33k	1%	0805	MULTICOMP	MC 0.1W 0805 1% 33K	Yes	Yes
C4	1	Capacitor SMD	100nF	10%	0603	KEMET	C0603C104K5RAC	Yes	Yes
C2	0	Capacitor SMD (Optional)	(Optional)	(Optional)	0805	(Optional)	(Optional)	Yes	Yes
D1	1	Diode SMD	MRA4003	-	DO-214AC, SMA	ON Semiconductor	MRA4003T3G	No	Yes
D4	0	LIN bus ESD protection diode (Optional)	ESD LIN	-	SOD323	(Optional)	(Optional)	Yes	Yes
L1	1	Resistor SMD (Optional Ferrite)	0R	1%	0805	MULTICOMP	MC 0.1W 0805 0R	Yes	Yes
J1	1	SIL HEADER 12 pins LEAD plated Right Angle	HEADER 1X12	-	HDR1x12	MOLEX	22-28-8362	Yes	Yes
D2	1	Switching Diode SMD	MMSD4148	-	SOD123	ON Semiconductor	MMSD4148T1G	No	Yes
D3	0	Switching Diode SMD	MMSD4148	-	SOD123	ON Semiconductor	MMSD4148T1G	No	Yes
U1	1	LIN Transceiver with 5V Voltage Regulator	NCV7425	-	SOIC16_WB_EP	ON Semiconductor	NCV7425DW5G	No	Yes
SCOPEGND	1	SCOPEGND; Wire Bridge	SCOPEGND	-	SCOPEGND	-	-	Yes	Yes
SW1	1	SWITCH SMD SPNO 6x6mm	SMD SWITCH	-	PB300	TYCO ELECTRONICS	FSM2JSMA	Yes	Yes
FT1, FT2, FT3, FT4	4	Rubber feet 12,7x12,7x5,8	SUPPORT FEET	-	FEET 12,7x12,7	3M	SJ5018BLACK	Yes	Yes
TP1, TP2, TP4, TP5, TP7, TP8, TP9, TP10, TP11, TP12	10	Testpin 200 SER. Hole 1.0 Black	TP S200 H1.0 BLACK	-		VERO	20-2137	Yes	Yes