



Bill of Materials for the NCV47821PAAJGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C _{in1}	1	Ceramic Capacitor	1 µF, 50 V	± 10 %	1206	Murata Electronics North America	GRM31MR71H105KA88	YES	YES
C _{in2}	1	Ceramic Capacitor	1 µF, 50 V	± 10 %	1206	Murata Electronics North America	GRM31MR71H105KA88	YES	YES
C _{out1}	1	Ceramic Capacitor	10 µF, 25 V	± 10 %	1206	Murata Electronics	GRM31CR71E106KA12L	YES	YES
C _{out2}	1	Ceramic Capacitor	10 µF, 25 V	± 10 %	1206	Murata Electronics	GRM31CR71E106KA12L	YES	YES
C _{B1}	1	Ceramic Capacitor	10 nF, 50 V	± 10 %	0805	Murata Electronics North America	GRM216R71H103KA01D	YES	YES
C _{B2}	1	Ceramic Capacitor	10 nF, 50 V	± 10 %	0805	Murata Electronics North America	GRM216R71H103KA01D	YES	YES
C _{CS01}	1	Ceramic Capacitor	1 µF, 16 V	± 10 %	0805	Murata Electronics North America	GRM21BR71C105KA01	YES	YES
C _{CS02}	1	Ceramic Capacitor	1 µF, 16 V	± 10 %	0805	Murata Electronics North America	GRM21BR71C105KA01	YES	YES
C ₁	1	Ceramic Capacitor	100 nF, 50 V	± 10 %	0805	Murata Electronics North America	GRM21BR71H104KA01L	YES	YES
C ₂	1	Ceramic Capacitor	10 µF, 25 V	± 10 %	1206	Murata Electronics North America	GRM31CR71E106KA12L	YES	YES
R ₁₁	1	Resistor	47 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-473-D	YES	YES
R ₂₁	1	Resistor	47 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-473-D	YES	YES
R ₁₂	1	Resistor	16 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-163-D	YES	YES
R ₂₂	1	Resistor	16 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-163-D	YES	YES
R _{CS010}	1	Resistor	15 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-153-D	YES	YES
R _{CS020}	1	Resistor	15 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-153-D	YES	YES
R _{CS011}	1	Resistor	1.5 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-152-D	YES	YES
R _{CS021}	1	Resistor	1.5 kΩ	± 0.5 %	0805	SUSUMU	RR1220P-152-D	YES	YES
R _{CS012}	1	Resistor	910 Ω	± 0.5 %	0805	SUSUMU	RR1220P-911-D	YES	YES
R _{CS022}	1	Resistor	910 Ω	± 0.5 %	0805	SUSUMU	RR1220P-911-D	YES	YES
R _{CS013}	1	Resistor	850 Ω to 25.5 kΩ	-	-	Do Not Populate		YES	YES
R _{CS023}	1	Resistor	850 Ω to 25.5 kΩ	-	-	Do Not Populate		YES	YES
R _{load1}	1	Resistor	22 Ω, 1.5 W	± 1 %	2512	MULTICOMP	MCPWR12FTEA0220	YES	YES
R _{load21}	1	Resistor	22 Ω, 1.5 W	± 1 %	2512	MULTICOMP	MCPWR12FTEA0220	YES	YES
R _{load12}	1	Resistor	330 Ω	± 1 %	0805	MULTICOMP	MC01W08051330R	YES	YES
R _{load22}	1	Resistor	330 Ω	± 1 %	0805	MULTICOMP	MC01W08051330R	YES	YES
R _{EF}	1	Resistor	5.6 kΩ	± 1 %	0805	MULTICOMP	MCWR08X5601FTL	YES	YES
R ₁	1	Resistor	680 Ω	± 1 %	0805	MULTICOMP	MCSR08X6800FTL	YES	YES
LED	1	ERROR FLAG	3 mm LED, red color	-	T-1	AVAGO TECHNOLOGIES	HLMP-K150	YES	YES
J ₁ - J ₄	4	Header, 4 pins	-	-	-	-	WWS 20 G	YES	YES
EN ₁ , EN ₂ , DE, CS, Vin ₂	5	Header, 3 pins	-	-	-	-	WWS 20 G	YES	YES
J ₅ - J ₈ , J ₁₀ - J ₁₃ , J ₂₀ - J ₂₃ , STG ₁ , STG ₂ , STB ₁ , STB ₂ , CSO ₁ , CSO ₂	18	Header, 2 pins	-	-	-	-	WWS 20 G	YES	YES
EF	1	Header, 1 pin	-	-	-	-	WWS 20 G	YES	YES
-	9	Jumper RM2,54 tag, black, Au	-	-	-	-	JUMP-OF/TAG SW	YES	YES
-	4	spring washer M3 Type B	-	-	-	TOOLCRAFT	-	YES	YES
-	4	Screw M3 x 6mm pan head, steel/Ni	-	-	-	ETTINGER	SKS 30-6	YES	YES
-	4	Hex standoff F/F M3 x 8mm SW5, brass/Ni	-	-	-	ETTINGER	DI5 M3x08	YES	YES
U1	1	NCV47821	-	-	TSSOP14-EP	ON Semiconductor	NCV47821PAAJR2G	NO	YES
U2	1	NCV4264-2C	-	-	SOT-223	ON Semiconductor	NCV4264-2CST50T3G	NO	YES