



## Bill of Materials for the NCP1090GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
Cbs1	1	Ceramic Capacitor	1nF	1000V, 10%	0805	KEMET	C0805X102KDRACTU	Yes	Yes
Cbs2, Cbs3,	4	Ceramic Capacitor	10nF	100V, 10%	0805	KEMET	C0805C103K1RACTU	Yes	Yes
Cbs6	1	Ceramic Capacitor	1 nF	2000V, 10%	1206	KEMET	C1206X102KGRACTU	Yes	Yes
Cgnd1	1	Ceramic Capacitor	DNP	-	1206	-	-	Yes	Yes
Cline1	1	Ceramic Capacitor	100nF	100V, 10%	1206	KEMET	C0805C104K1RACTU	Yes	Yes
CON1	1	DC Power Connector	-	-	DC-2.1MM	CLIFF	DC10A	Yes	Yes
CON2, CON3	2	8P8C modular jack communications connector	-	-	RJ45-MLX-85505	WUERTH	615 008 140 121	Yes	Yes
CON4	1	Screw contact connector	-	-	SIP4	WUERTH	691 210 910 004	Yes	Yes
Cpd1	1	Electrolytic Capacitor	100uF	63V	CRD10.0L17.0RM5.0	VISHAY	MAL203858101E3	Yes	Yes
D1, D2, D3, D4, D5, D6, D7, D8	8	Schottky Diode	-	-	SMB	ON Semiconductor	MBRA160T3G	Yes	Yes
Daux1	1	Schottky Diode	-	-	DPAK	ON Semiconductor	MBRD5H100T4G	Yes	Yes
Daux2	1	Zener Diode	-	-	SOT23	ON Semiconductor	BZX84C10LT1G	Yes	Yes
J1	1	Jumper	-	-	SIP2	WUERTH	613 002 111 21	Yes	Yes
Led1	1	LED, RED	-	-	0805	DIALIGHT	598-8110107F	Yes	Yes
Led2	1	LED, GREEN	-	-	0805	DIALIGHT	598-8170107F	Yes	Yes
Q1	1	PMOS transistor	-	-	SOT23	ON Semiconductor	NTR0202PL	Yes	Yes
R1	1	Resistor	0 $\Omega$	1%	0805	VISHAY	CRCW06030000Z0EA	Yes	Yes
Raux1	1	Resistor	1 k $\Omega$	1%	0805	VISHAY	CRCW08051K00FKEA	Yes	Yes
Raux2	1	Resistor	1 M $\Omega$	1%	0805	VISHAY	CRCW08051M00FKEA	Yes	Yes
Raux3	1	Resistor	100 k $\Omega$	1%	0805	VISHAY	CRCW0805100KFKEA	Yes	Yes
Rbs1, Rbs2, Rbs3, Rbs4, Rbs5, Rbs6, Rbs7, Rbs8	8	Resistor	75 $\Omega$	1%	0805	VISHAY	CRCW080575R0FKEA	Yes	Yes
Rclass1	1	Resistor	357 $\Omega$	1 %	1206	VISHAY	CRCW0805357KFKEA	Yes	Yes
Rdet1	1	Resistor	24.9 k $\Omega$	1 %	0805	VISHAY	CRCW080524K9FKEA	Yes	Yes
Rinrush1	1	Resistor	95.3 k $\Omega$	1 %	0805	VISHAY	CRCW080595K3FKEA	Yes	Yes
Rled1, Rled2	2	Resistor	10 k $\Omega$	1%	0805	VISHAY	CRCW080510K0FKEA	Yes	Yes
Rload1	1	Resistor	3 k $\Omega$	1%	2512	VISHAY	CRCW08053K00FKEA	Yes	Yes
Ruvlo1, Ruvlo2	1	Resistor	DNP	1%	0805	-	-	Yes	Yes
T1, T2	2	Signal Transformer	-	-	WE-749012011	WUERTH	749 012 011	Yes	Yes
U1	1	IC	-	-	SOIC8	ON Semiconductor	NCP1090S	No	Yes
U2	1	IC	DNP	-	TSSOP8	ON Semiconductor	NCP1090T	No	Yes
Zline1	1	Transil Diode	-	-	SMA	ON Semiconductor	1SMA58AT3G	Yes	Yes