



Bill of Materials for the NCP10672F12GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CX1	1	Y-Capacitor	100 nF			Carli	MPX104	Yes	Yes
CY1	1	X-Capacitor	1.0 nF			Murata	DE2E3KY102MN3AM02F	Yes	Yes
C1	1	Ceramic Capacitor	3216, 470 pF / 200 V			Kemet	C1206C471J2GACTU	Yes	Yes
C2,C6,C8	3	Ceramic Capacitor	2012, 100 nF / 50 V			Kemet	C0805C104K5RACTU	Yes	Yes
C3	1	Ceramic Capacitor	2012, 56 nF / 50 V			Kemet	C0805C563K5RACTU	Yes	Yes
C4	1	Ceramic Capacitor	2012, 10 nF / 50 V			Kemet	C0805C103K5RACTU	Yes	Yes
C5	1	Ceramic Capacitor	3216, 2.2 nF / 1 kV			Kemet	C1206C222kDRACTU	Yes	Yes
D1,D2,D4,D5,D7	5	Diode	RS1M			ON semi	RS1M	No	Yes
D3	1	Diode	S310FA			ON semi	S310FA	No	Yes
D6	1	Diode	UF4003			ON semi	UF4003	No	Yes
D8	1	Diode	SS36FA			ON semi	SS36FA	No	Yes
EC1	1	Electrolytic Capacitor	680 uF, 25 V			Samyoung	SHL, 25 V / 680 uF		Yes
EC2	1	Electrolytic Capacitor	18 uF, 400 V			Aishi	RK, 400 V / 18 uF		Yes
EC3	1	Electrolytic Capacitor	22 uF, 50 V			Samyoung	NXH, 50 V / 22 uF		Yes
EC4	1	Electrolytic Capacitor	470 uF, 10 V			Samyoung	SHL, 10 V / 470 uF		Yes
U1	1	Switcher	NCP10672BD100R2G			ON semi	NCP10672BD100R2G	No	Yes
U2	1	photo Coupler	PC817B			ON semi	PC817B	No	Yes
U3	1	Shunt regulator	KA431LZ			ON semi	KA431LZ	No	Yes
L1	1	Common mode choke	744862120			Wurth	744862120	Yes	Yes
F1	1	Fuse	250VAC 2A			Bussmann	250VAC 2A	Yes	Yes
R1,R2	2	Resistor	3216/200			Yageo	RC1206JR-0720RL	Yes	Yes
R5	1	Resistor	3216, 0 ohm			Yageo	RC1206JR-070RL	Yes	Yes
R6	1	Resistor	2012, 5k ohm			Yageo	RC0805JR-075KL	Yes	Yes
R7	1	Resistor	2012, 6.8k ohm			Yageo	RC0805JR-076K8L	Yes	Yes
R8	1	Resistor	2012, 20k ohm			Yageo	RC0805JR-0720KL	Yes	Yes
R9	1	Resistor	2012, 15k ohm			Yageo	RC0805JR-0715kL	Yes	Yes
R10	1	Resistor	2012, 3.9k ohm			Yageo	RC0805JR-073K9L	Yes	Yes
R12,R13	2	Resistor	2012, 100k ohm			Yageo	RC1206JR-07100KL	Yes	Yes
R14	1	Resistor	2012, 5.1k ohm			Yageo	RC1206JR-075K1L	Yes	Yes
T2	1	Transformer	EE1614, 10pin				EE1614, V10p	Yes	Yes
Con1	1	Connector	Terminal block			Molex	395430002	Yes	Yes
Con2	1	Connector	Terminal block			Molex	395430003	Yes	Yes

