

Bill of Materials for the NCP1362 HV Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Manufacturer Part Number
C2	1	Ceramic capacitor, 1206, 1 kV	100 pF	10%, 1 kV	Standard
C3, C21	2	X2 capacitor, 305 V	100 nF	305 V	B32921C3104
C4, C5, C17, C18	4	Electrolytic capacitor, 400 V	10 uF	400 V	UVC2G100MPD
C6	1	Ceramic capacitor, 0805, 35 V	2.2 uF	10%, 35 V	Standard
C7	1	Y1 capacitor, 440 V	100 pF	440 V	CD70-B2GA101KYNKA
C9	1	Ceramic capacitor, 0805, 50 V	4.7 pF	10%, 50 V	Standard
C10	1	Ceramic capacitor, 0805, 50 V	1 nF	10%, 50 V	Standard
C11	1	Ceramic capacitor, 0805, 35 V	4.7 uF	10%, 10 V	Standard
C12	1	Ceramic capacitor, 0805, 50 V	4.7 nF	10%, 50 V	Standard
C14	1	Ceramic capacitor, 0805, 50 V	1 nF	10%, 50 V	Standard
C15	1	Ceramic capacitor, 0805, 50 V	100 nF	10%, 50 V	Standard
C16	1	Ceramic capacitor, 0805, 50 V	22 pF	10%, 50 V	Standard
C19	1	Ceramic Resistor, 1206	0 Ω	5%	Standard
CM1	1	Common mode choke	2.2 mH	0.5 A	Murata 50225C
COUT1, COUT2	2	Polymer capacitor, 16 V	470 uF	20%, 16 V	PLF1C471MDO1
COUT3	1	Electrolytic capacitor, 16 V	47 μF	20%, 16 V	ECA1CAK470X
D1	1	Ultra Fast Diode, SMB, 2 A, 300 V	MURA230	2 A, 300 V, SMB	MURA230T3G
D2	1	Fast Recovery Diode, SMD, 1 A, 1000 V	US1MFA	1 A, 1000 V, SOD123FA	US1MFA
D3	1	Diode, SMD, 200 mA, 250 V	BAS21	200 mA, 250 V, SOD323	BAS21AHT1G
D4	1	Diode, SMD, 100 V	D1N4148	100 V	MMSD4148
D5	1	18 V Zener Diode	zener	18 V, SOD123	Standard
D6	1	Transient Voltage Suppression Diode	P6SMB120A		Littelfuse P6SMB120A
DB1	1	Diode bridge, SMD, 1 A, 1000V	MDB10S		MDB10S
IC1	1	PSR controller	NCP1362	SOIC8	NCP1362AADR2G
J1, J2	2	Output Connector	PM5.08/2/90	10A, 300V	PM5.08/2/90
L1	1	Radial Coil, 220 uH, 0.5 A, 10%	220 uF	10%, 0.5 A	7447462221
L2	1	Radial Coil, 1 uH, 3 A, 30%	1 uH	30%, 3 A	SRN4026-1ROY
M2	1	MOSFET, 1000 V, 2 A	FQU2N100TU	TO251-IPAK	FQU2N100TU
R4	1	Ceramic Resistor, 1206, 0.25W, 200 V	47 kΩ	5%	Standard
R6	1	Ceramic Resistor, 1206, 0.25W	0 Ω	5%	Standard
R8	1	Through hole resistor, 1 W, 1%	5 Ω	1%	CMF605R0000FKBF
R9	1	Ceramic Resistor, 1206, 0.25W, 200 V	47 kΩ	5%	Standard
R10	1	Ceramic Resistor, 0805, 0.25 W	0 Ω	5%	Standard
R11	1	15 V Zener Diode	zener	15 V, SOD323	Standard
R14	1	Ceramic Resistor, 0805, 0.25 W	470 kΩ	5%	Standard
R15	1	Ceramic Resistor, 0805, 0.25 W	470 kΩ	5%	Standard
R16	1	Ceramic Resistor, 0805, 0.25 W	10 Ω	5%	Standard

R17	1	Ceramic Resistor, 0805, 0.25 W	470 k Ω	5%	Standard
R18	1	Ceramic Resistor, 0805, 0.25 W	47 k Ω	5%	Standard
R19	1	Ceramic Resistor, 0805, 0.25 W	3.3 M Ω	5%	Standard
R22	1	Ceramic Resistor, 0805, 0.25 W	10k Ω	5%	Standard
R24	1	Ceramic Resistor, 0805, 0.25 W	4.3 k Ω	5%	Standard
R25	1	Ceramic Resistor, 0805, 0.25 W	3.3 M Ω	5%	Standard
R28	1	Ceramic Resistor, 0805, 0.25 W	82 k Ω	5%	Standard
R29	1	Ceramic Resistor, 0805, 0.25 W	240 k Ω	5%	Standard
R30	1	Ceramic Resistor, 0805, 0.25 W	1.2 k Ω	5%	Standard
R31	1	NTC, 100 k Ω at 25°C, Beta = 4190	100k @ 25°C		NTCLE100E3104JB0
R33	1	Ceramic Resistor, 0805, 0.25 W	470 k Ω	5%	Standard
R34	1	Ceramic Resistor, 0805, 0.25 W	470 k Ω	5%	Standard
R37	1	Ceramic Resistor, 0805, 0.25 W	3.3 M Ω	5%	Standard
R38	1	Ceramic Resistor, 0805, 0.25 W	470 k Ω	5%	Standard
R39	1	Ceramic Resistor, 0805, 0.25 W	1 M Ω	5%	Standard
R40	1	Ceramic Resistor, 0805, 0.25 W	2.2 M Ω	5%	Standard
ROUT1	1	Ceramic Resistor, 2512, 1 W	0R	5%	Standard
RS1	1	Ceramic Resistor, 0805, 0.25 W	1.3 Ω	1%	Standard
RS2	1	Ceramic Resistor, 0805, 0.25 W	3.0 Ω	1%	Standard
T1	1	Transformer 12 V 12 W			Würth 7508111333