



Mechanical1 MultiLayer KeepOutLayer

TopLayer Mechanical5 TopOverlay

AKT80101_1_TSP_2.0 021208

BottomLayer Mechanical6 BottomOverlay

NCP1081SPCEVB_1.0 A1021208

Comment	Description	Designator	Footprint	Quantity
NCP1083	Power over Ethernet controller	U1	TSSOPEP20	1
100n	Capacitor	Cf1	0805-C-S	1
100n/100V	Capacitor	Cline, Cpd1	1206-C	2
100p/200V	Capacitor	Csn1	0805-C-S	1
12n	Capacitor	Cfb2	0805-C-S	1
2.2u/16V	Capacitor	Cvddh	0805-C-S	1
2200p/2KV	Capacitor	Cgnd	1812	1
39n	Capacitor	Cfb1	0805-C-S	1
470n	Capacitor	Cvddl	0805-C-S	1
470p/200V	Capacitor	Csn2	0805-C-S	1
47n	Capacitor	Css	0805-C-S	1
NC	Capacitor	Csi	0805-C-S	1
100u/63V	Capacitor Elec Polar	Cpd	CRD10.0L17.0RM5.0	1
10u/20V	Capacitor Tant Polar	Cf	C-TANT-B	1
68u/25V/55mR	Capacitor Tant Polar	Cout	C-TANT-E	1
SM-00112	PoE Plus Transformer	T3	NUFLUX	1
BAS16HT1G	Diode	Dbw, DGate	SOD323	2
MBRS2H100T3G	Diode Schottky	Daux1	403A-03	1
MURS120T3G	Diode	Dsn, Dsn1	403A-03	2
MBRS1100T3G	Diode Schottky	Dbr1, Dbr2, Dbr3, Dbr4	403A-03	4
MBRS1100T3G	Diode Schottky	Dbr5, Dbr6	403A-03_D	2
1SMB100AT3G	Diode TVS 100V	Zivs	403A-03	1
MM3Z3V3ST1G	Diode Zener 3.3V	Zaux1	SOD323	1
MMSZ16T1G	Diode Zener 16V	Zbr1, Zbr2, Zbr3, Zbr4	SOD123	4
12CWQ06FNPBF	Diode Schottky	Dsec	DPAK	1
Header 6	Header, 6-Pin	JOUT	HDR1X6	1
Header 8	Header, 8-Pin	P1	HDR1X8	1
10uH/3A	Secondary Filter	L1	10x12	1
Si7462DP	MOSFET N-CHANNEL	Q1	SOPP8	1
FDS3992	MOSFET N-CHANNEL	Q4	SO-8	1
BFT92	Transistor PNP	Qgate	SOT23	1
PS2801-1-F3-A	HIGH ISOLATION VOLTAGE SSOP PHOTOCOUPLER	U2	SSOP4	1
0R1/2W	Resistor	Rcs	2512-S	1
10	Resistor	Rgate	0805-R-S	1
120K	Resistor	Rinrush	0805-R-S	1
150K	Resistor	Rbr1, Rbr2, Rbr3, Rbr4, Rosc	0805-R-S	5
15K	Resistor	Rfb1	0805-R-S	1
20K	Resistor	Rbias2	0805-R-S	1
22	Resistor	Rclass	0805-R-S	1
24.9K/0.1%	Resistor	Rdet1	0805-R-S	1
3.9K	Resistor	Rfb2	0805-R-S	1
330/2W	Resistor	Rsn1	2512-S	1
39K	Resistor	Raux1	0805-R-S	1
44.2K	Resistor	Rilim1	0805-R-S	1
470K	Resistor	Rdet1'	0805-R-S	1
5.1K	Resistor	Rbias1, Rsl	0805-R-S	2
75	Resistor	Rbw, Rsn2	0805-R-S	2
820	Resistor	Rfb3	0805-R-S	1
845/0.1%	Resistor	Rdet2	0805-R-S	1
Si7113DN	MOSFET P-Channel	Q2, Q3	POWERPACK 12128	2
1SMA58AT3G	Diode TVS 58V	Zline	SMA	1
TL432BIDBZTG4	Programmable Shunt Voltage Reference	U3	SOT23	1