

1. B.O.M List of SDS-1200120U01-F Vo=12V120mA**Date: 22March 09**

Description	Ref.	Raw material	Mfg.
A. Electrical			
C-Cap	C3	C cap 1000pF 250V or equivalent	GUIDING or other suppliers
E-Cap	C7	E -cap 25V 330uF 105°C D10 L12.5 or equivalent	Samwha or G-LUXON or other suppliers
E-Cap	C5	E -cap 50V 2.2uF 105°C D5 L11 or equivalent	SAMWHA or other suppliers
E-Cap	C50	E -cap 50V 2.2uF 105°C D5 L11 or equivalent	SAMWHA or other suppliers
E-Cap	C1	E -cap 400V 3.3uF 105°C D8 L11.5 or equivalent	CAPXON or G-LUXON or other suppliers
E-Cap	C2	E -cap 400V 3.3uF 105°C D8 L11.5 or equivalent	CAPXON or G-LUXON or other suppliers
Y1-Cap	C8	1nF 250VAC +-20% DCF series of SHMEC or DE series of MURATA or equivalent	SHMEC or MURATA or other suppliers
Diode	D1	1N4007	D.C. or Good-ark or other suppliers
Diode	D2	1N4007	D.C. or Good-ark or other suppliers
Diode	D5	1N4007	D.C. or Good-ark or other suppliers
Diode	D8	UF4003	Good-ark or D.C or other suppliers
Zener	Z2	15V 0.5W BZX79-C15V DO-35 or equivalent	PHILIPS or other suppliers
Zener	Z1	6.2V 0.5W BZX79-C6V2 DO-35 or equivalent	PHILIPS or other suppliers
Fuse	FR1	15R 5% 1W KNP SERIES TY-OHM	TY-OHM or other suppliers
Opto-coupler	U1	K1010H of COSMO or EL817 or equivalent	COSMO or Everlight or other suppliers
IC	U2	KA431TO-92 FAIRCHILD or TL431 TO-92 HTC KOREA	FAIRCHILD or HTC KOREA or other suppliers
Transistor	Q1	NPN STBV32 TO-92	ST or other suppliers
Resistor	R13	1K +- 5% 1/2W	HK resistor or Royal Ohm or other suppliers
Resistor	R30	3.9R 1W +- 1%	HK resistor or Royal Ohm or other suppliers
Inductor	L1	1mH +-10% AL4060-102K MATSUTA or equivalent	MATSUTA or other suppliers
SMD Diode	D6	DL4148 series of DC or LL4148 series of VISHAY or GOOD-ARK or equivalent	DC or VISHAY or Good-ark or other suppliers
SMD Diode	D7	DL4148 series of DC or LL4148 series of VISHAY or GOOD-ARK or equivalent	DC or VISHAY or Good-ark or other suppliers
SMD.Transistor	Q2	NPN BC817-40 SOT23 or equivalent	PHILIPS or other suppliers
SMD.Transistor	Q3	NPN BC817-40 SOT23 or equivalent	PHILIPS or other suppliers
SMD Cap	C500	100nF 50V 0805	Yageo or Phycomp or Kemet or samsung or samwha or other suppliers
SMD Cap	C6	1nF 50V 0805	Kemet or Yageo or Phycomp or other suppliers
SMD Cap	C10	27pF 50V 0805	Kemet or samwha or Yageo or Phycomp or other suppliers
SMD Cap	C4	27nF 50V 0805	Yageo or Phycomp or Kemet or samsung or samwha or other suppliers
SMD Cap	C9	27nF 50V 0805	Yageo or Phycomp or Kemet or samsung or samwha or other suppliers
SMD Resistor	R20	1K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	*R300 (trimming)	47R-300R 1/4W 1206	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R4	110K 1/4W 1206	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R5	110K 1/4W 1206	HK resistors or Royal Ohm or other suppliers
SMD Resistor	*R110 (trimming)	47R - 220R 1/4W 1206	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R15	150R 1/4W 1206	HK resistors or Royal Ohm or other

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			suppliers
SMD Resistor	R16	1.5K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R17	20K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R10	220R 1/4W 1206	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R6	220R 1/4W 1206	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R19	27K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R7	270K /8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R1	470K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R2	470K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R3	470K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R14	0R 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R11	5.1R 1/4W 1206	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R8	4.7R 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R12	560R 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R18	5.6K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	*R28 (trimming)	47K – 200K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
SMD Resistor	R9	910K 1/8W 0805	HK resistors or Royal Ohm or other suppliers
	L2	Core A5 RH 4.83X6.35X2.29 Wire=0.37mm, Triple wire=0.35mm	Poly-Products
Transformer	T1	EE1614S	Poly-Products
P.C.B.		UL approved, 62mm X 42mm	Junda or other suppliers
		1.6mm 94V-0 FR1	
Remarks:		*: stands for trimming resistor	
<u>B. Mechanical</u>			
Jumper Wires		0.6mm diameter	Owl electronics or other suppliers
I/P wire-Blue		#24 UL1007	Owl electronics or other suppliers
I/P wire-Brown		#24 UL1007	Owl electronics or other suppliers
Output Cable		AWG#24, 1.3m	FULLY GUIDE Co. or other suppliers
Case Upper & bottom		LOWER CASE WHITE SW-01+UV MAT'L : ABS (94V0) UPPER CASE SW-01+UV MAT'L: ABS (94V0) WHITE	SHEK FAI or equivalent maker
Heat shrinkable tube		HEAT SHRINK TUBE ϕ 4.0mm THK.0.25mm (K-2 / GSHS-1625G)	KAI HENG /LG Cable or other suppliers

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Adhesive		SEALER HIGH-ADHESIVITY 1603HFR-HS	Maxbond or other suppliers
Nylon plate		Nylon 101F,0.75mm	SHEK FAI or equivalent maker
INSTRUCTION		INSTRUCTION SIZE:102x51mm JIN CHEN PB FREE	JCHE or other suppliers