

MODEL NO.: SA06L48-V
 CUSTOMER P/N:
 DESCRIPTION: SWITCHING ADAPTER
 ISSUED DATE: September 5, 2002
 REVISION NO.: 01

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01	Max Load 0.35A→0.4A	2002/9/5
00	Initial Released	2002/7/17
REV	DESCRIPTION	DATE

APPD. BY	CHK. BY	PRE. BY
Bill Pena 2002/9/5	Kevin 2002/9/5	Kevin 2002/9/5

1.0 INPUT REQUIREMENTS

- 1.1 AC VOLTAGE:
90Vac TO 264Vac INPUT
- 1.2 FREQUENCY:
47Hz TO 63Hz
- 1.3 AC CURRENT:
0.6A MAX.
- 1.4 INRUSH CURRENT:
40A MAX. AT 115Vac AND FULL LOAD, COLD START, 25 .

2.0 OUTPUT REQUIREMENTS

2.1 DC OUTOUT REQUIREMENTS:

OUTPUT VOLTAGE	OUTPUT TOLERANCE	RIPPLE &NOISE	LOAD	
			MIN	MAX
+ 48Vdc	45.6V~50.4V	480mVp-p	0.0A	0.4A

NOTE:
MEASURING DONE BY 20MHz BAND WIDTH LIMITED OSCILLOSCOPE AND TERMINATED EACH OUTPUT WITH A 10uF AND A 0.1uF CAPACITOR DOES MEASURING

- 2.2 OVERSHOOT:
OVERSHOOT SHOULD NOT EXCEED 10% OVER NOMINAL VOLTAGE
- 2.3 RISE TIME:
50mS MAX.
- 2.4 HOLD-UP TIME:
MINIMUM 10mS AT 80% MAX LOAD, 115Vac INPUT.

3.0 EFFICIENCY

THE SWITCHER SHOULD PROVIDE DC CONVERSION EFFICIENCY MINIMUM 80% AT FULL LOAD, 115Vac INPUT.

4.0 PROTECTION REQUIREMENTS

- 4.1 OVER VOLTAGE PROTECTION:
96V MAX. FOR 48V OUTPUT
- 4.2 SHORT CIRCUIT PROTECTION:
THE SWITCHER SHOULD BE AUTO-RECOVER IN CASE ANY SHORT-CIRCUIT SHOULD OCCUR AT ANY DC OUTPUT

5.0 ENVIRONMENTAL

5.1 OPERATING:

TEMPERATURE 0 TO 40

RELATIVE HUMIDITY 20% TO 90% RH

5.2 STORAGE:

TEMPERATURE -25 TO 85

RELATIVE HUMIDITY 0% TO 90% RH

6.0 EMI REQUIREMENT

MEET FCC PART 15 SUBPART J CLASS B.

MEET CNS 13438 CLASS B

MEET CISPR CLASS B

7.0 SAFETY REQUIREMENTS

7.1 SAFETY REGULATION:

THE SWITCHER DESIGNED TO MEET BELOW STANDARDS:

UL 1950

CUL

TUV EN60950

7.2 DIELECTRIC STRENGTH:

INPUT AND OUTPUT 1800Vac @ 3 SEC

8.0 RELIABILITY

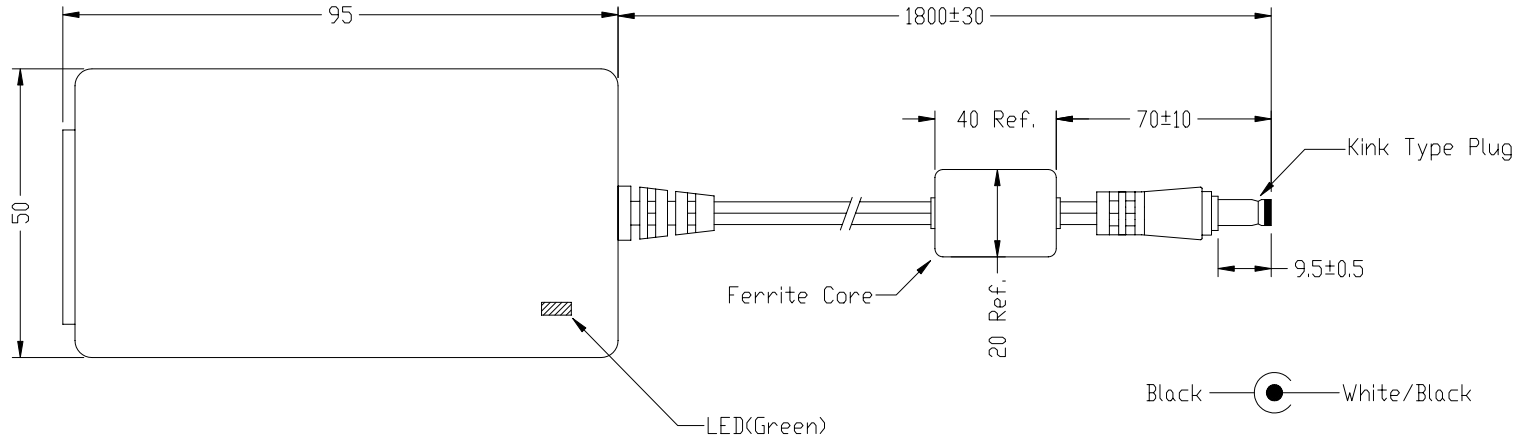
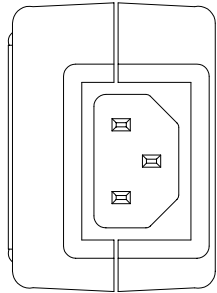
8.1 MTBF: 50000 HOURS

8.2 B-TEST:

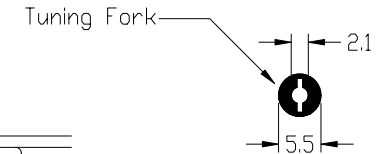
VIBRATION, SHOCK, ALTITUDE, STATIC COMPRESSION, DROP... ETC. PLEASE REFER TO B-TEST PROCEDURE.

9.0 DIMENSIONS

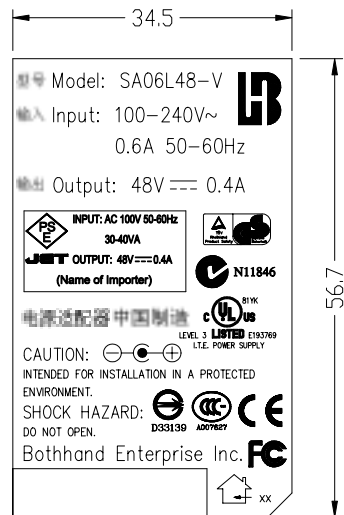
SEE ASSEMBLY DRAWING



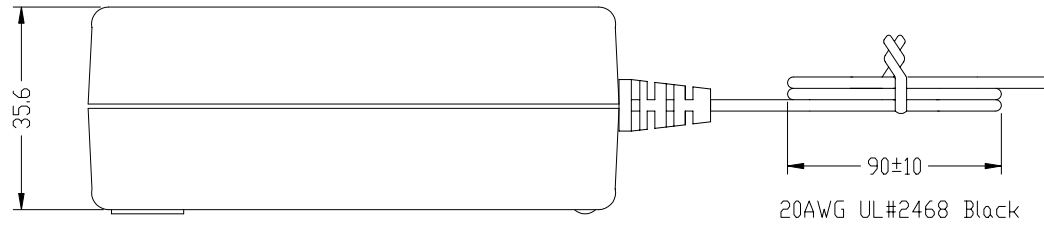
Black White/Black



Label 1:



"XX": Label Manufacturer Code



Label 2:

RXXXXXXXXXX
 MADE IN CHINA FV

*China Factory: "MADE IN CHINA FV"

*Taiwan Factory: "MADE IN TAIWAN"

S/N: RXXXXXXXXXX

Serial No.
 Date Code
 Revision No.

Unit: m.m.

COMMON TOLERANCE		
0 - 5	±0.4	
5 - 10	±0.6	
10 - 50	±0.8	
50 - 100	±1.0	
100 -	±1.0%	

02	Change 93*49->95*50	2003/07/29	Bill P.	Bill Pena	Bill Pena	Kevin	BOTHHAND ENTERPRISE INC.	Outline Drawing	SA06L48-V-2A
01	Label Add CE and FCC Logo	2003-05-07	Kevin	2003/01/29	2003/01/29	2003/01/29			PART NO.
00	Initial Released	2003-01-22	Kevin						Outline/06L48-V-2A
REV.	DESCRIPTION	DATE	SIGN	APP. BY	CHK. BY	DRW. BY	PART NAME	DRAW NO.	

Model No.: SA06L48-V-2A

Date: 2003/8/20

Description: Switching Adapter Desk-ToP(L3P) +48V/0.4A

No.	材料編號	材料名稱	規格	單位用量	插件位
1	05-B0070	Wire 18/1015 10+70+10 Y/G YIYI	05-0349	2	FG...
2	05-D0174	Cable 20/2468 2.1*5.5*9.5(FK,KK) 1800(C/L,BK) JY	05-0492	1	OUTPUT...
3	06-A0013	Inlet Snap-In-Type 0711-PN/Inalways	06-0083	1	INLET...
4	06-A0013-A	Inlet Snap-In-Type SC-8-2(C)/Supercom	06-0083A	1	INLET 2nd Source...
5	08-0140	PWB FR-1 0.8t 1oz SA07-G TN	08-0140	1	
6	09-0113	Top-Case SA06N-V CJ	09-0113	1	CASE...
7	09-0114	Bottom-Case SA06N-V CJ	09-0114	1	CASE...
8	15-0007	Shrink Tube 5D*20mm Fujikura,Sumitomo	15-0007	3	Inlet*3...
9	15-0099	Pad 6.9D*1.5t Black DF	15-0099	2	CASE...
10	16-0442	Label SA06L48-V/BH DL	16-0442	1	LABEL...
11	70-SA06L48	SA06L48 Main-Board	90-264Vac, 48V/0.4A	1	

1	01-A0560JCA	Resistor CF 56 J 1/8W Fong-Ya, Lian-Sheng	01-0035	1	R8...
2	01-A1001JCA	Resistor CF 1.0K J 1/8W Fong-Ya, Lian-Sheng	01-0061	1	R9...
3	01-A1002JCA	Resistor CF 10K J 1/8W Fong-Ya, Lian-Sheng	01-0081	1	R6...
4	01-A1204JDA	Resistor CF 1.2M J 1/4W Fong-Ya, Lian-Sheng	01-0254	3	R1,R2,R2a...
5	01-A1500JCA	Resistor CF 150 J 1/8W Fong-Ya, Lian-Sheng	01-0043	1	R7...
6	01-A2201JCA	Resistor CF 2.2K J 1/8W Fong-Ya, Lian-Sheng	01-0066	1	R18...
7	01-A2202JCA	Resistor CF 22K J 1/8W Fong-Ya, Lian-Sheng	01-0086	1	R17...
8	01-A3301JCA	Resistor CF 3.3K J 1/8W Fong-Ya, Lian-Sheng	01-0069	1	R19...
9	01-A4700JCA	Resistor CF 470 J 1/8W Fong-Ya, Lian-Sheng	01-0053	1	R11...
10	01-A4R70JFA	Resistor CF 4.7 J 1/2W Fong-Ya, Lian-Sheng	01-0277	1	R12...
11	01-A8201JCA	Resistor CF 8.2K J 1/8W Fong-Ya, Lian-Sheng	01-0079	1	R16...
12	01-A8201JFA	Resistor CF 8.2K J 1/2W Fong-Ya, Lian-Sheng	01-0864	1	R15...

13	01-A8203JDA	Resistor CF 820K J 1/4W Fong-Ya, Lian-Sheng	01-0251	1	R4...
14	01-C1R00JGA	Resistor KNP/5TS 1.0 J 1W Fong-Ya, Lian-Sheng	01-0874	1	R5...
15	01-E18011CA	Resistor MF 1.80K 1% 1/8W Fong-Ya, Lian-Sheng	01-0704	1	R13...
16	01-E20011CA	Resistor MF 2.00K 1% 1/8W Fong-Ya, Lian-Sheng	01-0710	1	R10...
17	01-E22111CA	Resistor MF 2.21K 1% 1/8W Fong-Ya, Lian-Sheng	01-0833	1	R10 2nd Source (Rt值大)...
18	01-E33021CA	Resistor MF 33.0K 1% 1/8W Fong-Ya, Lian-Sheng	01-0740	1	R14...
19	01-F5602JFA	Resistor MOF/Mini 56K J 1/2W Fong-Ya, Lian-Sheng	01-0817	1	R3...
20	02-A103PMR	Capacitor CER 103pF M 1KV EASE,ELECER	02-0041	1	C4a...
21	02-A151PMR	Capacitor CER 151pF M 1KV EASE,ELECER	02-0221	1	C8...
22	02-A472PMRC	Capacitor CER/10mm 472pF M 1KV EASE,ELECER	02-0358	1	C4...
23	02-B471PKH	Capacitor ML 471pF K 50V EASE,ELECER	02-0075	1	C5...
24	02-E101UMF	Capacitor AL 100uF M 25V 105 6D*11 TK/Jamicon	02-0141	1	C3...
25	02-E101UMF-A	Capacitor AL 100uF M 25V 105 6D*11 KME/NCC	02-0141A	1	C3 2nd Source...
26	02-E101UMF-C	Capacitor AL 100uF M 25V 105 6D*11 TK/LTEC	02-0141C	1	C3 2nd Source...
27	02-E101UMF-E	Capacitor AL 100uF M 25V 105 6D*11 KMF/NCC	02-0141E	1	C3 2nd Source...
28	02-E330UMO	Capacitor AL 33uF M 400V 105 13D*25 TK/Jamicon	02-0222	1	C2...
29	02-E330UMO-B	Capacitor AL 33uF M 400V 105 13D*20 TSH/Tosin	02-0222B	1	C2 2nd Source...
30	02-E330UMO-C	Capacitor AL 33uF M 400V 105 13D*25 TK/LTEC	02-0222C	1	C2 2nd Source...
31	02-E4C7UMO	Capacitor AL 4.7uF M 400V 105 10D*12 UTWHS/TK	02-0360	1	C1...
32	02-E4C7UMO-B	Capacitor AL 4.7uF M 400V 105 10D*12 TK/LTEC	02-0360B	1	C1 2nd Source...
33	02-E4C7UMO-C	Capacitor AL 4.7uF M 400V 105 10D*12 TK/JAMICON	02-0360C	1	C1 2nd Source...
34	02-H100UMJ	Capacitor SR 10uF M 100V 105 6D*11 KMF/NCC	02-0371	1	C10...
35	02-H101UMI	Capacitor LLR 100uF M 63V 105 8D*15 LXZ/NCC	02-0372	1	C9...
36	02-J222PML	Capacitor CY 222pF M 250Vac KC/Murata	02-0203	2	CY2,CY3...
37	02-J222PML-A	Capacitor CY 222pF M 250Vac CS/TKD	02-0203A	2	CY2,CY3 2nd Source...
38	02-J222PML-C	Capacitor CY 222pF M 250Vac RS/Matsushita	02-0203C	2	CY2,CY3 2nd Source...
39	02-J222PML-E	Capacitor CY 222pF M 250Vac AC/Pan-Overseas	02-0203E	2	CY2,CY3 2nd Source...
40	02-J222PML-F	Capacitor CY 222pF M 250Vac AA/Netron-Tech	02-0203F	2	CY2,CY3 2nd Source...

41	02-K332PML	Capacitor CY/Y1 332pF M 250Vac KX/Murata	02-0349	1	CY1...
42	02-K332PML-A	Capacitor CY/Y1 332pF M 250Vac CD/TKD	02-0349A	1	CY1 2nd Source...
43	02-K332PML-B	Capacitor CY/Y1 332pF M 250Vac NS-A/Matsushita	02-0349B	1	CY1 2nd Source...
44	02-K332PML-C	Capacitor CY/Y1 332pF M 250Vac JN/JYA-NAY	02-0349C	1	CY1 2nd Source...
45	02-M103PJI	Cap MSC 103pF J 63V BF/LCC,MMK/Evov-Rifa,BF/AVX	02-0340	1	C6...
46	02-M103PJJ	Cap MSC 103pF J 100V BF/AVX	02-0381	1	C6 2nd Source...
47	02-M104PJI	Cap MSC 104pF J 63V BF/LCC,MMK/Evov-Rifa,BF/AVX	02-0332	1	C11...
48	02-M104PJJ	Cap MSC 104pF J 100V BF/AVX	02-0380	1	C11 2nd Source...
49	02-M472PJI	Cap MSC 472pF J 63V BF/LCC,MMK/Evov-Rifa,BF/AVX	02-0234	1	C7...
50	02-M472PJJ	Cap MSC 472pF J 100V BF/AVX	02-0379	1	C7 2nd Source...
51	03-B0005	Fast Diode 1A/200V PR1003/Liteon	03-0085	1	D6...
52	03-B0005-A	Fast Diode 1A/200V FR103/Tsc	03-0085A	1	D6 2nd Source...
53	03-B0005-B	Fast Diode 1A/200V PR1003/DII	03-0085B	1	D6 2nd Source...
54	03-D0001	Zener Diode 18V 5% 1/2W BZX79C18/Philips	03-0004	1	ZD1...
55	03-D0001-A	Zener Diode 18V 5% 1/2W HZ18-2/Hitachi	03-0004A	1	ZD1 2nd Source...
56	03-D0001-B	Zener Diode 18V 5% 1/2W RD18EB3/Nec	03-0004B	1	ZD1 2nd Source...
57	03-D0027	Zener Diode 24V 5% 1/2W BZX55C24/VISHAY	03-0188	1	ZD2 ...
58	03-D0027-A	Zener Diode 24V 5% 1/2W TZX24/VISHAY	03-0188A	1	ZD2 2nd Source ...
59	03-E0003	Hi-Eff Diode 1A/600V FUF4005/Fagor	03-0065	1	D5 2nd Source...
60	03-E0003-A	Hi-Eff Diode 1A/600V HER107/TSC	03-0065A	1	D5...
61	03-E0015	Ultra Fast Diode Glass 3A/600V SF30JG/LITEON	03-0189	1	D7...
62	03-G0005	PWM IC 0.5mA UC3843BN/ST (調整Rt值大)	03-0164	1	U1 2nd Source (2.21K)...
63	03-G0005-A	PWM IC 0.4mA KA3843AC-S/Fairchild	03-0164A	1	U1 (2.00K)...
64	03-G0005-B	PWM IC 0.5mA IP3843J/SEMELAB PLC	03-0164B	1	U1 2nd Source (2.00K)...
65	03-G0005-D	PWM IC 0.3mA UC3843A/EST	03-0164D	1	U1 2nd Source (2.00K)...
66	03-M0010	Mosfet Hi-S F/P 3.5A/600V 2.2/6p-typ 2SK2750/TSB	03-0163	1	U2 2nd Source...
67	03-M0010-A	Mosfet Hi-S F/P 2.2A/600V 3.6/9p STP3NB60FP/ST	03-0163A	1	U2 2nd Source...
68	03-M0010-C	Mosfet Hi-S F/P 3A/600V 3.6/7p-typ STP3NC60FP/ST	03-0163C	1	U2...

69	03-N0001	Bridge Diode 1A/600V S1NB60/Shindengen	03-0010	1	BD1...
70	03-N0001-A	Bridge Diode 1A/600V DF06M/Fagor	03-0010A	1	BD1 2nd Source...
71	03-N0001-C	Bridge Diode 1A/600V DF06M/Liteon	03-0010C	1	BD1 2nd Source...
72	03-N0001-D	Bridge Diode 1A/600V DB105G/TSC	03-0010D	1	BD1 2nd Source...
73	03-N0001-E	Bridge Diode 1A/600V DF06M/DII	03-0010E	1	BD1 2nd Source...
74	03-O0003	Photo Coupler 4P CTR:100-250% PC817B/Sharp	03-0060	1	U3 2nd Source...
75	03-O0003-A	Photo Coupler 4P CTR:100-250% LTV817B/Liteon	03-0060A	1	U3...
76	03-O0003-B	Photo Coupler 4P 100-250% H11A817B/QTC/Fairchild	03-0060B	1	U3 2nd Source...
77	03-O0003-C	Photo Coupler 4P CTR:100-250% KPC817B/COSMO	03-0060C	1	U3 2nd Source...
78	03-O0003-D	Photo Coupler 4P CTR:100-250% TCET1108G/VISHAY	03-0060D	1	U3 2nd Source...
79	03-P0005	LED 5D*25mm Green	03-0137	1	LED...
80	03-P0005-A	LED 5D*25mm Green L-513GD/LITEON	03-0137A	1	LED 2nd Source...
81	03-Q0001	Regulator Ref:2.5V AN1431T/Matsushita	03-0013	1	U4 2nd Source...
82	03-Q0001-A	Regulator Ref:2.5V KA431Z/Fairchild	03-0013A	1	U4...
83	03-Q0001-B	Regulator Ref:2.5V 1% TL431ACZ/ST	03-0013B	1	U4 2nd Source...
84	03-Q0001-E	Regulator Ref:2.5V AS431LN/ALPHA	03-0013E	1	U4 2nd Source...
85	04-A0161	Main Xfmr EE-25 SA06L48 Class(B) HIS-8A/MH	04-0269	1	T1...
86	04-A0161-A	Main Xfmr EE-25 SA06L48 Class(B) SPB-6/XP	04-0269A	1	T1 2nd Source...
87	04-A0161-B	Main Xfmr EE-25 SA06L48 Class(B) M7A90/YS	04-0269B	1	T1 2nd Source...
88	04-B0018	Choke DR6*8 0.5D 13.5T 5.5uH XP,JK,LC,MH,AH,YT,YS	04-0064	1	L1...
89	04-B0037	Choke T9*5*3 0.5D*2 7T 160uH Xepex	04-0145	1	LF2 ...
90	04-B0037-A	Choke T9*5*3 0.5D*2 7T 160uH Jou-Ku	04-0145A	1	LF2 2nd Source...
91	04-B0037-B	Choke T9*5*3 0.5D*2 7T 160uH Gold-Chem	04-0145B	1	LF2 2nd Source...
92	04-B0037-C	Choke T9*5*3 0.5D*2 7T 160uH Yuntek	04-0145C	1	LF2 2nd Source...
93	04-B0037-D	Choke T9*5*3 0.5D*2 7T 160uH YS	04-0145D	1	LF2 2nd Source...
94	04-C0026	Line Choke T12*6*4 0.4D 25T 2.3mH Xepex	04-0205	1	LF3...
95	04-C0026-A	Line Choke T12*6*4 0.4D 25T 2.3mH Milli-Henry	04-0205A	1	LF3 2nd Source...
96	04-C0026-B	Line Choke T12*6*4 0.4D 25T 2.3mH Li-Chieh	04-0205B	1	LF3 2nd Source...

97	04-C0026-C	Line Choke T12*6*4 0.4D 25T 2.3mH AIN-HSIN	04-0205C	1	LF3 2nd Source...
98	04-C0034	Line Choke UU-9.8(Mirror) 0.2D 120T 23mH MH	04-0273	1	LF1...
99	04-D0011	Bead Core RH4*6*2 K5B(King-Core)/XP,N4/AMAX,全圓	04-0235	1	D7...
100	05-A0008	Jump Wire 0.6D Taping Tzai-Yuan	05-0024	3	J1,J2,J3...
101	05-B0001	Wire 22/1015 10+60+Pin Black YIYI,JK,HK	05-0008	1	ACL...
102	05-B0002	Wire 22/1015 10+60+Pin White YIYI,JK,HK	05-0009	1	ACN...
103	07-0085	Heat Sink Cu-Tinned FP-19D01 WD	07-0085	1	HS1...
104	08-0164	PWB CEM-1 1.6t 1oz SA06L48 TN	08-0164	1	
105	10-0026	Fuse-Slow/Lead T1A 250V 4*10mm TAP/Walter	10-0026	1	F1...
106	10-0026-A	Fuse-Slow/Lead T1A 250V 4.5*15mm 42S/Triad	10-0026A	1	F1 2nd Source...
107	10-0026-B	Fuse-Slow/Lead T1A 250V 4.5*15mm 3JS/Bel	10-0026B	1	F1 2nd Source...
108	10-0026-C	Fuse-Slow/Lead T1A 250V 4.5*15mm SDP/Conquer	10-0026C	1	F1 2nd Source...
109	11-0005	Screw P+/SW M3*6mm NI SHOUB-PIN	11-0005	1	U2...
110	15-0019	Silicone Tube 1D*10mm A(Kurabe)/LC,Nikkan	15-0019	2	C2*2...
111	15-0037	Shrink Tube 7D*15mm(0.3t) Fujikura,Sumitomo	15-0037	1	F1...
112	15-0121	Silicone Tube 1D*13mm A(Kurabe)/LC	15-0121	1	F1...
113	15-0127	Silicone Tube 1D*15mm A(Kurabe)/LC	15-0127	2	LED1*2...