

Application part		NAC-2500LM	NAC-2500LR	NAC-2500L	Model NAC-2500L			Unit	mm			
					drawing name NAC-2500L terminal			Scale	N/S			
					drawing No.			General Tolerance	±0.1			
	NO	D	C	B	A	Part No	Symbol & Reference	part name	spec		Maker	
	1		1	1	1	EA1-0050A		NAC-2500N MAIN ASS'Y	V0.5		PB-FREE	
4	2		1	1	1	EA1-0051A		NAC-2500N RELAY ASS'Y	V1.0		PB-FREE	
4			1	1	1				V1.1			
1	3		1	1	1	EA1-0052A		NAC-2500N NETWORK ASS'Y	V1.0 V1.2		PB-FREE PB-FREE	
	4		1	1	1	EA1-0043A		NAC-2500 KEYPAD ASS'Y	V1.0		PB-FREE	
	5		1			EA1-0056A		NAC-2500N ANT PCB ASS'Y	81 x 40 (V1.1)		PB-FREE	
	6		1	1	1	EA1-0045B		NAC-2500N LCD ASS'Y	GM123210SFSYBG-R2	DATA IMAGE	PB-FREE	
5	7		1	1	1	EA1-0046B		AUTO-ON SENSOR (P/F)	ADM07W	TOUCH-ON	PB-FREE	
5			1	1	1	EA1-0046C		AUTO-ON SENSOR (P/F)	ADM04N-W100N	TOUCH-ON	PB-FREE	
	8		1	1	1	EA2-0014C		OPTIC MODULE ASS'Y	OPP03N		PB-FREE	
7	9		1			EA3-0045A		MIFARE RF CABLE	3PIN 70mm		PB-FREE	
	10		1	1	1	EA3-0046A		OPP03 CABLE	OPTIC<->FIM		PB-FREE	
	11			1		EA5-0020A		RF CARD MODULE	NAC-2500	KEICO	PB-FREE	
	12			1		EA5-0010F		RF COIL	43 x 70 (NAC-2500)		PB-FREE	
	13		1			EA5-0020B		MIFARE RF CARD MODULE	NAC-2500	KEICO	PB-FREE	
	14		5	6	6	MS4-0003A		TAPPING SCREW	STEEL 2.3 x 8, (+)		PB-FREE	
	15		4	4	4	MS4-0005B		TAPPING SCREW	STEEL 3 x 10, (+)		PB-FREE	
	16		6	6	6	MS4-0007A		TAPPING SCREW	STEEL 2 x 6, (+)		PB-FREE	
	17		1			MS4-0008A		TAPPING SCREW	STEEL 2.5 x 12, (+)		PB-FREE	
	18		1	1	1	MS7-0039A		NAC-2500 FRONT CASE	ABS		PB-FREE	
	19		1	1	1	MS7-0040A		NAC-2500 MIDDLE CASE	ABS		PB-FREE	
	20		1	1	1	MS7-0041A		NAC-2500 REAR CASE	PC		PB-FREE	
	21		1	1	1	MS7-0042A		NAC-2500 KEYPAD	SILICONE RUBBER		PB-FREE	
	22		1	1	1	MS7-0043A		NAC-2500 FRONT WINDOW	82.77 x 33.27 ACRYLIC		PB-FREE	
	23		1	1	1	MS7-0044A		NAC-2500 LED WINDOW	9 x 58 ACRYLIC		PB-FREE	
	24		1	1	1	MS7-0045A		NAC-2500 LCD COVER	74 x 38.5 ACRYLIC		PB-FREE	
	25		4	4	4	MS7-0046B		NAC-2500 PCB SPACER	9 x 8T		PB-FREE	
	26		1			MS7-0047A		NAC-2500 PCB SPACER	6 x 4T ACRYLIC		PB-FREE	
	27				1	MSB-0023A		NAC-2500 LABEL	29 x 68	NITGEN	PB-FREE	
2	28			1		MSB-0023B		NAC-2500R LABEL	29 x 68	NITGEN	PB-FREE	
2	29		1			MSB-0023C		NAC-2500M LABEL	29 x 68	NITGEN	PB-FREE	
	30		1	1	1	MSB-0025A		NAC-2500 ESD	110 x 100		PB-FREE	
8	31		1	1	1	MSB-0026A		NAC-2500 ESD	35 x 20		PB-FREE	
	32		1	1	1	MSB-0027A		NAC-2500	60 x 14	NITGEN	PB-FREE	
	33		2	2	2	MSB-0028B		NAC-2500 LCD	30 x 10 x 3		PB-FREE	
	34		1	1	1	SU2-0002B		NAC-2500N SPEAKER (P/F)	SR4020PS13D	S4 DESIGN	PB-FREE	
3	35			1		MS9-0043A			9.1X25.5 (NAC-2500R)			
6				1		MSB-0035A			9.1X25.5 (NAC-2500R)			
3	36		1			MS9-0043B			9.1X25.5 (NAC-2500M)			
6			1			MSB-0035B			9.1X25.5 (NAC-2500M)			

Application part	4	FLASH 8M	Model				Unit	mm						
			NAC -2500L					Scale	N/S					
			Main PCB ASS'Y											
			EA1-0050 (2/3)										General Tolerance	±0.1
No	B	Part No	Symbol & Reference						Maker					
1	1	EB1-0019B			NAC-2500N MAIN PCB	179x79.7x1.7t, 6L (V0.5)				P/F				
2	55	EC1-0001D	BC1-BC51,C15,C49,C51-52		CERAMIC CAPACITOR	0.1uF,16V,±10%,S1608			WALSIN	PB-FREE				
3	7	EC1-0002A	C17,C20-C23,C25,C28		CERAMIC CAPACITOR	10uF/10V,+80--20%,S1608			WALSIN	PB-FREE				
4	4	EC1-0004E	C35,C38,C43,C48		CERAMIC CAPACITOR	22pF,50V,±5%,S1608			WALSIN	PB-FREE				
5	2	EC1-0013A	C44,C45		CERAMIC CAPACITOR	33pF,50V,±5%,S1608			WALSIN	PB-FREE				
6	→	EC2-0018A	C39		ELECTRO-CAPACITOR	SCDM3R3234R			Korchip	PB-FREE				
7	3	EC3-0001E	C37,C46,C47		TANTAL CAPACITOR	4.7uF,16V±10%,S3216			VISHAY	PB-FREE				
		EC3-0001F				4.7uF,20V,±20%,S3216			NICHICON	PB-FREE				
		EC3-0003D				4.7uF,16V,±20%,S3216			NICHICON	PB-FREE				
		EC3-0003H							VISHAY	PB-FREE				
8	3	EC3-0002A	C19,C27,C50		TANTAL CAPACITOR	47uF,16V,±20,S7343			VISHAY	PB-FREE				
9	3	EC3-0003A	C18,C24,C26		TANTAL CAPACITOR	10uF,16V±20%,S3216			VISHAY	PB-FREE				
10	4	EC3-0003D	C14,C29,C30,C31		TANTAL CAPACITOR	4.7uF,20V,±20%,S3216			VISHAY	PB-FREE				
11	2	EC3-0007A	C1,C2		ELECTRO CAPACITOR	22uF,50V±20%SP6.3				PB-FREE				
12		ED1-0001A	D3,D5,D6,D11-D16		DIODE	LL4148-CHIP3415			DEC,ROHM	PB-FREE				
	9	ED1-0001A			DIODE	LL4148, CHIP3415			DEC,ROHM	PB-FREE				
13	2	ED1-0002B	D1,D2		DIODE	SS210			DEC	PB-FREE				
14	34	EE4-0003A	BL1-BL34		FERRITE BEAD	MPZ2012-S221A			TDK	PB-FREE				
15	1	EH2-0004A	D4		LED	LED GREEN,1.8V,CH11608			AUK	PB-FREE				
16	1	EN2-0001H	J4		CONNECTOR-MOLEX	53047-0910(1.25mm)			MOLEX	PB-FREE				
17	1	EN2-0004B	JP1		JUMPER	A2-2PA-2.54DSA			DAEWON	PB-FREE				
18	1	EN2-0030A	J10		CONNECTOR	53398-0371			MOLEX	PB-FREE				
19	1	EN2-0030B	J2		CONNECTOR	5267-06AX			MOLEX	PB-FREE				
20	1	EN2-0030C	J1		CONNECTOR	5267-03AX			MOLEX	PB-FREE				
21	2	EN2-0030D	J5,J9		CONNECTOR	5267-04AX			MOLEX	PB-FREE				
22	2	EN2-0030E	J6,J8		CONNECTOR	52559-2072			MOLEX	PB-FREE				
		EN2-0030H				52559-2070			MOLEX	PB-FREE				
23	1	EN2-0030F	J7		CONNECTOR	52207-1885			MOLEX	PB-FREE				
24	2	EN2-0028A	J12,J15		CONNECTOR	DSS-200-20P			DAEWON	PB-FREE				
25	2	EN2-0029A	J13,J14		CONNECTOR	DSS-200-16P			DAEWON	PB-FREE				
26	→	EQ1-0002B	Q1-Q4,Q4-Q5		TR	MMBT4401LT1G			AUK	PB-FREE				
	3		Q1,Q4,Q5											
27	1	EQ1-0007A	Q3		TR	BC338-25ZL1			On-Semi	PB-FREE				
		EQ1-0007B				BC337-25ZL1								
28	3	ER2-0001A	R29,R33,R54		RESISTOR	0Q,±5%,S1608			WALSIN	PB-FREE				
29	1	ER2-0001A	R32		RESISTOR	0Q,±5%,S1608			WALSIN	PB-FREE				
30	1	ER2-0001D	R42		RESISTOR	100Q,±5%,S1608			WALSIN	PB-FREE				
31	2	ER2-0001F	R34,R40		RESISTOR	330Q,±5%,S1608			WALSIN	PB-FREE				
32	1	ER2-0001G	R57		RESISTOR	470Q,±5%,S1608			WALSIN	PB-FREE				
33	1	ER2-0001K	R50		RESISTOR	560Q,±5%,S1608			WALSIN	PB-FREE				
34	4	ER2-0001M	R6,R37,R38,R43		RESISTOR	1KQ,±5%,S1608			WALSIN	PB-FREE				
35	2	ER2-0001N	R12,R13		RESISTOR	1.5KQ,±5%,S1608			WALSIN	PB-FREE				
36	3	ER2-0001Q	R41,R67,R68		RESISTOR	3KQ,±5%,S1608			WALSIN	PB-FREE				
37	20	ER2-0001R	R1-2,R4-5,R10-11,R36,R44-49,R55,R59,R62,R64,R69,R70-71		RESISTOR	4.7KQ,±5%,S1608			WALSIN	PB-FREE				
38	8	ER2-0001S	R3,R14-16,R20-22,R35		RESISTOR	10KQ,±5%,S1608			WALSIN	PB-FREE				
39	→	ER2-0001T	R24,R26,R63,R60,R61		RESISTOR	100KQ,±5%,S1608			WALSIN	PB-FREE				
	4		R24,R25,R60,R61											
40	1	ER2-0001U	R23		RESISTOR	1MQ,±5%,S1608			WALSIN	PB-FREE				
41	1	ER2-0001V	R9		RESISTOR	20KQ,±5%,S1608			WALSIN	PB-FREE				
42	3	ER2-0002B	R26,R27,R28		RESISTOR	24Q,±5%,S1608			WALSIN	PB-FREE				
43	2	ER2-0002H	R30,R31		RESISTOR	22Q,±5%,S1608			WALSIN	PB-FREE				
44	1	ER2-0002U	R8		RESISTOR	2KQ,±5%,S1608			WALSIN	PB-FREE				
45	→	ER2-0004H	R61		RESISTOR	23KQ,±1%,S1608			WALSIN	PB-FREE				
46	1	ER2-0011A	R53		RESISTOR	91K,±5%,S1608			WALSIN	PB-FREE				
47	1	ER2-0012A	R63		RESISTOR	120Q,±5%,S1608			WALSIN	PB-FREE				
48	3	ER3-0002C	RA5,RA6,RA7		ARRAY RESISTOR	22Q,±5%,MNR14			WALSIN	PB-FREE				
49	3	ER3-0002F	RA2,RA3,RA8		ARRAY RESISTOR	1KQ,±5%,MNR14			WALSIN	PB-FREE				
50	2	ER3-0002K	RA1,RA4		ARRAY RESISTOR	10KQ,±5%,MNR14			WALSIN	PB-FREE				
51	1	ER5-0001A	R7		VR RESISTOR	RG06P-10K			TOCOS	PB-FREE				
52	14	ER5-0002A	C3-C13,C16,C34,C36		VARISTOR	SFI0603-050E220NP			SFI	PB-FREE				
53	1	ES3-0003B	U14		IC SOCKET- P/F	24PIN DIP			Y.J.Elec	PB-FREE				
54	1	EUI-0005D	U6		CPU	LUPXA255AOC200,200MH			Intel	PB-FREE				
55	1	EUI-0006B	U10		FPGA	XC2S30-5VQG100			Xilinx	PB-FREE				
56	1	EUI-0007A	U1		V.REGULATOR	NCP1086ST-33T3G			On-Semi	PB-FREE				
57	1	EUI-0008A	U3		POWER SWITCH	FD06323L			Fairchild	PB-FREE				
58	1	EUI-0009A	U2		V.REGULATOR	XC6210B252MR			Torex	PB-FREE				
59	1	EUI-0030A	U5		V.REGULATOR	NCP1729SN35T1G			On-Semi	PB-FREE				
60	1	EUI-0031A	U4		V.REGULATOR	SC42115TRT			Semtech	PB-FREE				
61	1	EUI-0016A	U14-1		Voice IC	AP89341			APLUS	PB-FREE				
62	→	EUI-0007B	U8		SDRAM	K4S643232H-TC60			SAMSUNG	PB-FREE				
		EUI-0011B			SDRAM	K4S643232H-UC60			SAMSUNG	PB-FREE				
		EUI-0011C			SDRAM	IS42S32200C1-6TL			ISSI	PB-FREE				
63		EUI-0013B	U9		FLASH MEMORY	SST39VF3201-70-4C-EKE			SST	PB-FREE				
64	1	EUI-0013C	U9		FLASH MEMORY	SST39VF6401B70-4C-EKE			TI	PB-FREE				
65	1	EUI-0007A	U11		CMOS IC	SN74HC08PWR TSSOP				PB-FREE				
66	1	EUI-0004A	U13		RTC	DS1302Z			Dallas	PB-FREE				
		EUI-0004B			RTC	DS1302Z+			Dallas	PB-FREE				
67	1	EUI-0024B	U16		RESET IC	EM6323LXSP5B-2.9+			EM	PB-FREE				
68	1	EUI-0005A	U15		RS-485 TRANSCEIVERS	SP3494EN-L			SIPEX	PB-FREE				
69	1	EX1-0001C	U7		X-TAL	3.6864MHz (Small)			SUNNY	PB-FREE				
70	1	EX1-0002A	U13		X-TAL	CH308,32.768KHz,±50			CITIZEN	PB-FREE				
		EX1-0002B				CH308,32.768KHz,±50			SUNNY	PB-FREE				
71	1	EN2-0013D	C39		CONNECTOR	53261-0271			MOLEX	PB-FREE				
72	1	EP2-0005A	C39-2		BATTERY ASS'Y	CR2032+2P CABLE				PB-FREE				

Application part					Model			Unit	mm			
					NAC - 2500L							
NETWORK PCB ASS'Y			Scale	N/S								
EA1 - 0052 (2/2)			General Tolerance	±0.1								
No	D	C	B	A	Part No	Symbol & Reference			Maker			
1				1	EB1 - 0021B		NAC - 2500N NETWORK PCB	81 X 49, V1.2		P/F		
2				12	EC1 - 0001D	BC2~BC7, BC9~12, C1, C3	CERAMIC CAPACITOR	0.1uF,16V±10%,S1608	WALSIN	PB - FREE		
3				2	EC1 - 0002A	BC1, BC8	CERAMIC CAPACITOR	1μF,10V,+80 - 20,S1608	WALSIN	PB - FREE		
4				1	ED1 - 0001A	D3	DIODE - DEC	LL4148, CHIP3415	DEC	PB - FREE		
5				11	EE4 - 0003A	BL1~4,BL10, BL12~17	FERRITE BEAD	MPZ2012 - S221A	TDK	PB - FREE		
6				2	EH2 - 0004A	D1,D2	LED	SM - 1316T, GREEN, S1608	AUK	PB - FREE		
7				1	EN1 - 0006B	J3	CONNECTOR (P/F)	PCB - 824A (RJ45)	BESTSUN	PB - FREE		
8				2	EN2 - 0028B	J1,J2	CONNECTOR	DH2002(D) - 115 - 20P		PB - FREE		
9				3	ER2 - 0001D	R2,R3,R5	RESISTOR	100Ω, ±5%, S1608	WALSIN	PB - FREE		
10				1	ER2 - 0001R	R11	RESISTOR	4.7KΩ, ±5%, S1608	WALSIN	PB - FREE		
11				1	ER2 - 0001S	R61	RESISTOR	10KΩ, ±5%, S1608	WALSIN	PB - FREE		
12				2	ER2 - 0002F	R6,R7	RESISTOR	10Ω, ±5%, S1608	WALSIN	PB - FREE		
13				2	ER2 - 0002M	R8,R9	RESISTOR	39Ω, ±5%, S1608	WALSIN	PB - FREE		
14				1	ER2 - 0002R	R10	RESISTOR	68Ω, ±5%, S1608	WALSIN	PB - FREE		
15				1	ER2 - 0004H	R4	RESISTOR	22KΩ, ±1%, S1608	WALSIN	PB - FREE		
16				1	ER2 - 0007A	R1	RESISTOR	0Ω, ±5%, CHIP2012	WALSIN	PB - FREE		
17				1	ER5 - 0002A	C2	VARISTOR	SFI0603 - 050E220NP	SFI	PB - FREE		
18				1	EU2 - 0002B	U1	LAN	LAN91C96MU	SMSC	PB - FREE		
19				1	EU2 - 0004A	U2	PHY	FB2022 LF	BOTH HAND	PB - FREE		
20				1	EU3 - 0009A	U4	SEEPROM	AT93C46 - 10SI - 2.7	ATMEL	PB - FREE		
				1	EU3 - 0009B	U4	SEEPROM	AT93C46 - 10SU - 2.7	ATMEL	PB - FREE		
21				1	EX1 - 0004A	U3	OSC	SCO - 103, 20MHz	SUNNY	PB - FREE		

Application part		Model			Unit	mm			
		NAC-2500L							
		RELAY PCB ASS'Y			Scale	N/S			
		EA1-0051 (2/2)			General Tolerance	±0.1			
NO	A	Part No	Symbol & Reference				Maker		
1	-1	EB1-0020B		NAC-2500N-RELAY-PCB	81 X 40 (V 1.0)			P.F	
2	1	EB1-0020C		NAC-2500N RELAY PCB	81 X 40 (V 1.1)			P.F	
2	1	EC1-0007E	C1	CERAMIC CAPACITOR	22nF,50V, ±10%,S1608		WALSIN	PB-FREE	
3	4	EC1-0015A	C2, C8, C14~15	CERAMIC CAPACITOR	0.1μF,50V, S1608		WALSIN	PB-FREE	
4	2	EC1-0016A	C3, C4	CERAMIC CAPACITOR	4.7μF,50V, -20/+80,S3225		WALSIN	PB-FREE	
5	1	EC1-0016B	C9	CERAMIC CAPACITOR	2.7nF/50V, ±10,S1608		WALSIN	PB-FREE	
6	1	EC3-0002A	C6	Tantal Capacitor	47μF,16V, ±20,S7343		VISHAY	PB-FREE	
7	2	EC3-0007A	C11,C12	ELECTRO CAPACITOR	22μF,50V±20%Sφ6.3			PB-FREE	
8	1	EC3-0008A	C5	ELECTRO CAPACITOR	0.1μF,50V, ±20,Sφ4			PB-FREE	
2	-1	EC3-0017A	C13	TANTAL CAPACITOR	4.7F,50V, ±20%,S7343		KEMET	PB-FREE	
10	1	ED1-0001A	D2	DIODE	LL4148, CHIP3415		DEC,ROHM	PB-FREE	
11	1	ED1-0002B	D1	DIODE	SS210		DEC	PB-FREE	
12	1	EE1-0014A	L1	INDUCTOR	PLF10140-150M2R1 15uH, 2.5A		TDK	PB-FREE	
13	5	EE4-0003A	BL1~5	FERRITE BEAD	MPZ2012-S221A		TDK	PB-FREE	
14	1	EL5-0003A	K1	RELAY	DS1E-M-DC5V		NAIS	PB-FREE	
15	1	EN2-0004B	JP1	JUMPER	A2-2PA-2.54DSA		DAEWON	PB-FREE	
16	1	EN2-0030G	J4	CONNECTOR	53259-0229		MOLEX	PB-FREE	
17	2	EN2-0029B	J2,J3	CONNECTOR	DH2002(D)-125-16P		DAEWON	PB-FREE	
18	1	EQ1-0005A	Q1	SWITCHING TR	KRC106S		KEC	PB-FREE	
19	2	ER2-0001K	R10,R11	RESISTOR	560Ω, ±5%,S1608		WALSIN	PB-FREE	
2	2	ER2-0001M	R1,R12~13	RESISTOR	1KΩ, ±5%,S1608		WALSIN	PB-FREE	
2	1	ER2-0003F	R1	RESISTOR	1KΩ, ±5%,S2012		WALSIN	PB-FREE	
22	2	ER2-0001R	R7,R8	RESISTOR	4.7KΩ, ±5%,S1608		WALSIN	PB-FREE	
23	1	ER2-0001S	R9	RESISTOR	10KΩ, ±5%,S1608		WALSIN	PB-FREE	
24	2	ER2-0001U	R14~15	RESISTOR	1MΩ, ±5%,S1608		WALSIN	PB-FREE	
25	1	ER2-0002X	R16	RESISTOR	3.3KΩ, ±5%,S1608		WALSIN	PB-FREE	
26	1	ER2-0003E	R5	RESISTOR	7.5KΩ, ±5%,S1608		WALSIN	PB-FREE	
27	1	ER2-0004D	R2	RESISTOR	30.9KΩ, ±1%,S1608		WALSIN	PB-FREE	
28	1	ER2-0004G	R3	RESISTOR	10KΩ, ±1%,S1608		WALSIN	PB-FREE	
29	1	ER5-0002A	C10	VARISTOR	SFI0603-050E220NP		SFI	PB-FREE	
30	2	EU8-0018A	U2,U3	PHOTO COUPLER	SPC-817M		AUK	PB-FREE	
31	1	EU8-0032A	U1	POWER IC	MP1591-DS-Z		MPS	PB-FREE	
1	32	EN3-0007A	JP1-2	SHORT PIN-HIROSE	HIF3GA-2.54SP		HIROSE	PB-FREE	
2	33	EE1-0005A	L2	INDUCTOR	SHP1260P-330A		TCE	PB-FREE	

Application part	NAC-2500 KEYPAD	Model NAC-2500L			Unit	mm			
		KEYPAD PCB ASS'Y			Scale	N/S			
		EA1-0043 (2/2)			General Tolerance	±0.1			
NO	A	Part No	Symbol & Reference				Maker		
1	1	EB1-0022A		NAC-2500 KEYPAD PCB	155 X 78 (V 1.0)			P.F	
2	1	EC1-0001D	C1	CERAMIC CAPACITOR	0.1uF,16V±10%,S1608		WALSIN	PB-FREE	
3	20	ED1-0001B	D1~20	DIODE	1N4148,S3415		DEC	PB-FREE	
4	3	EH2-0001A	D21,D23~24	LED	RED,1.8V,S3216		EVERIGHT	PB-FREE	
5	3	EH2-0001C	D22,D25~26	LED	GREEN,1.8V,S3216		EVERIGHT	PB-FREE	
6	1	EN2-0009D	J2	CONNECTOR	53398-0271		MOLEX	PB-FREE	
7	1	EN2-0030E EN2-0030H	J1	CONNECTOR	52559-2072 52559-2070		MOLEX	PB-FREE PB-FREE	
8	3	EQ1-0002B EQ1-0004B	Q1~3	SWITCHING TR	MMBT2369LT1G		MOTOROLA	PB-FREE	
9	3	ER2-0001D	R8,R15,R18	CERAMIC RESISTOR	100Ω,±5%,S1608		WALSIN	PB-FREE	
10	10	ER2-0001E	R1~7,R9~11	CERAMIC RESISTOR	220Ω,±5%,S1608		WALSIN	PB-FREE	
11	3	ER2-0001M	R12,R13,R14	CERAMIC RESISTOR	1KΩ,±5%,S1608		WALSIN	PB-FREE	
12	2	ER2-0013C	R16~17	CERAMIC RESISTOR	49.9Ω,±5%,S1608		WALSIN	PB-FREE	

Revised: Thursday, November 08, 2007
Revision: 0.1

Bill Of Materials November 8,2007 15:33:19 Page1

Item	Quantity	Reference	Part
1	1	C1	1uF/10V
2	1	D1	SSC -UHPT801 (EXTERIOR LED)
3	4	D2,D3,D4,D5	SSC -UR102
4	1	J1	MOLEX 4P 2.5MM (35022 -4A)
5	2	Q1,Q2	MMBT4401L
6	1	R1	50 S2012 %1
7	1	R2	220 S1608 1%
8	1	R3	220S1608 1%
9	1	R4	33 S2012 %1
10	2	R5,R6	1K
11	1	VARISTOR1	N.C. (2012 size)

No. :	OPP03 LFD PARTS LIST
Date : 2007. 10. 18	

OPP03 LFD Parts List							
N0	Code	Part Number	Part Name	Specification	QuI	ECO	
1			OPP03 LFD PCB	V 1.2	1		
2	EE4-0005A	BA1,BA2	Ferrite Bead Array	CBA3216GA601N4E	2		
3	EC1-0010A	BC2,BC3,BC4,C7,C8	CERAMIC CAPACITOR	0.1uF,16V,+80 ~ -20%,S1005	5		
4	EC1-0011A	C1	CERAMIC CAPACITOR	0.33uF,10V,+80 ~ -20%,S1005	1		
5	EC1-0001L	C2,C4	CERAMIC CAPACITOR	1uF,16V ± 10%,S1608	2		
6	EN2-0021B	J1	Connector	52746-2090	1		
7	EN2-0022A	J2	Connector	DSS-200-5P(-3)	1		
8	EE4-0004A	L1,L2	Ferrite Bead	CB1608GA102T	2		
9	EQ1-0002A	Q1	SWITCHING TR	MMBT4401LT1	1		
10	ER2-0009B	R1,R2,R3,R4,R5	RESISTOR	4.7KΩ , ± 5%,S1005	5		
11	ER2-0007C	R6	RESISTOR	33Ω , ± 1%,S2012	1		
12	ER2-0009A	R7	RESISTOR	330Ω , ± 5%,S1005	1		
13	EU8-0025A	U1	V.REGULATOR	XC6213B252NR	1		
14	EUA-0005A	U3	CMOS IMAGE SENSOR	PAS302BCW	1		
15	EH2-0005A		LED	KA-1114/2EC-CC-L5	1		

	Mifare Module	PARTLIST		NO							
	MCM(Mifare)										

NO	LEVEL				PART NAME		MAKER	
0					Mifare Module(Rev.01)			
	1				Mifare Module(Rev.01)			
	2			1	ANT	5263-03AX	MOLEX	
	2			2	CN1_2	Header 4Pin		
	2			2	C1_2	20pF(1608-Type)		
	2			2	Tantal Capacitor	10uF/6.3V(Tantal P-Type)		
	2			5	C4_5,6,8,12	0.1uF(1608-Type)		
	2			3	C9_10,11	15pF(1608-Type)		
	2			2	C14_21	27pF(1608-Type)		
	2			2	C19_20	47pF(1608-Type)		
	2			2	C16_24	270pF(1608-Type)		
	2			2	Ceramic Capacitor	62pF(1608-Type)		
	2			1	D1	1N4148WS		
	2			1	LED1	Green(1608-Type)		
	2			3	L1_2,3	2.2uH(2012-Type)		
	2			1	R7	0Ω(1608-Tpve)		
	2			1	R2	47KΩ(1608-Tpve)		
	2			1	R3	390Ω(1608-Tpve)		
	2			1	R4	10KΩ(1608-Tpve)		
	2			1	R5	820Ω(1608-Tpve)		
	2			1	MPU	ATmega162-16Ai(TQFP)	ATMEL	
	2			1	IC	RC500(SO-32)	PHILIPS	
	2			1	XT1	7.3728Mhz		
	2			1	XT2	13.56Mhz		

		2		Connector	1	CN4		DownLoad
--	--	---	--	-----------	---	-----	--	----------

		2		Resistor	1	R6	0Ω(1608-Tpve)	
		2		Connector	1	CN3		
		2		Ceramic Capacitor	4	C13,15,22,25	(1608-Type)	