



Feature

1. Built-in controller: Samsung-(KS0713)
2. +3V or +5V Power supply
3. 1/65 duty cycle
4. Optional touch panel

Pin No.	Symbol	Pin No.	Symbol
1	NC	24	CLS
2	TEMPS	25	MS
3	INTRS	26	DUTY1
4	HPM	27	DUTY0
5	DCDC5B	28	DB7
6	BSTS	29	DB6
7	V4	30	DB5
8	V3	31	DB4
9	V2	32	DB3
10	V1	33	DB2
11	V0	34	DB1
12	VR	35	DB0
13	C2-	36	E_RD
14	C2+	37	RW_WR
15	C1-	38	RS
16	C1+	39	RESETB
17	C3-	40	CS2
18	C3+	41	CS1B
19	Vout	42	DISP
20	Vdd	43	CL
21	Vss	44	M
22	PS	45	FRS
23	MI	46	NC

Mechanical Data

Item	Standard Value	Unit
Module Dimension	56.0x42.5	mm
Viewing Area	52.0x33.5	mm
Dot size	0.35x0.4	mm
Dot Pitch	0.37x0.42	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-2.4	---	5.5	V
Input Voltage	VI	-0.3	---	VDD	V

Note : VSS=0 Volt, VDD=5.0 Volt.

Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	L level	0.8V _{DD}	---	V _{DD}	V
	VIO	H level	---	---	---	V
Supply Current	I _{DD}	VDD=5V	---	---	---	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C	9.5	10.0	10.5	V
		0°C	9.3	9.8	10.3	
		25°C	7.9	8.4	8.9	
		50°C	7.0	7.5	8.0	
EL Power Supply Current	IEL	70°C	6.8	7.3	7.8	mA
		VeI=110VAC;400Hz	---	---	---	