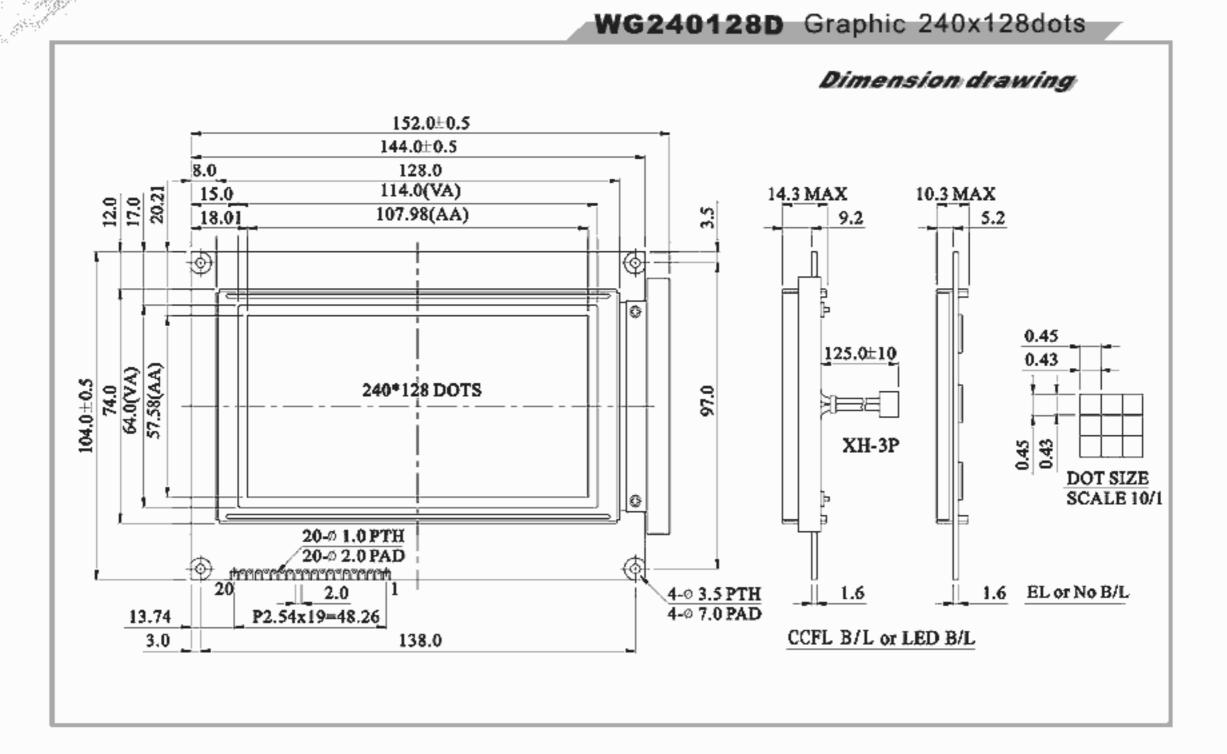
Trolessional CCD Module Manufacture



Feature

- 1. Built-in controller SANYO- (LC7981 or equialent)
- 2.+5√ power supply
- 3.1/64duty cycle
- 4. Built-in N.V

Electronical Characteristics

1 Vss Power supply (GND) 2 Vdd Power supply (+5V) 3 Vo Contrast Adjustment 4 RS Data /instruction select 5 RW Data read write 6 E Enable signal 7 DB0 Data bus line 8 DB1 Data bus line 9 DB2 Data bus line 10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	Pin NO	Symbol	Function				
3 Vo Contrast Adjustment 4 RS Data /instruction select 5 RW Data read write 6 E Enable signal 7 DB0 Data bus line 8 DB1 Data bus line 9 DB2 Data bus line 10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	1 ·	Vss	Power supply (GND)				
A RS Data /instruction select RW Data read write E Enable signal DB0 Data bus line DB1 Data bus line DB2 Data bus line DB3 Data bus line DB4 Data bus line DB5 Data bus line DB6 Data bus line DB7 Data bus line CS Chip select ReS Reset signal Vee Negative Voltage output RO No connection Power supply for B/L	2	Vdd	Power supply (+5V)				
5 RW Data read write 6 E Enable signal 7 DB0 Data bus line 8 DB1 Data bus line 9 DB2 Data bus line 10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	3	Vo	Contrast Adjustment				
6 E Enable signal 7 DB0 Data bus line 8 DB1 Data bus line 9 DB2 Data bus line 10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	4	RS					
7 DB0 Data bus line 8 DB1 Data bus line 9 DB2 Data bus line 10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	5	RW	Data read write				
8 DB1 Data bus line 9 DB2 Data bus line 10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	6	Е	Enable signal				
9 DB2 Data bus line 10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	7	DB0	Data bus line				
10 DB3 Data bus line 11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	8	DB1	Data bus line				
11 DB4 Data bus line 12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	9	DB2	Data bus line				
12 DB5 Data bus line 13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	10	DB3	Data bus line				
13 DB6 Data bus line 14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	11	DB4	Data bus line				
14 DB7 Data bus line 15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	12	DB5	Data bus line				
15 CS Chip select 16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	13	DB6	Data bus line				
16 ReS Reset signal 17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	14	DB7	Data bus line				
17 Vee Negative Voltage output 18 NC No connection 19 A Power supply for B/L	15	cs	Chip select				
18 NC No connection 19 A Power supply for B/L	16	Res	Reset signal				
19 A Power supply for B/L	17	Vee	Negative Voltage output				
,, , , , , , , , , , , , , , , , , , ,	18	NC	No connection				
20 K Power supply for B/L	19	Α	Power supply for B/L				
	20	K	Power supply for B/L				

Mechanical Data

Item	Standard Value		
Module Dimension	144.0x104.0	mm	
Viewing Area	114.0x64.0	mm	
Dot Size	0.43x0.43	mm	
Dot pitch	0.45x0.45	mm	

Absolute Maximum Rating

Item	Symbol	Stan	Unit			
men	Symbol	min.	typ.	max.	Unit	
Power Supply	VDD-VSS	4.75	5.0	5.25	V	
Input Voltage	VI	-0.3		aav	٧	

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

Electronical Characteristics

Una	Symbol	Condition	Stan			
Item			min.	typ.	max.	Unit
Innut Valtore	VDD	L level	0.7V ₂₀		Vos	٧
Input Voltage	VIO	H level			0.3V ₀₀	ν
Supply Current	DDI	VDD=5V	Ð	55	60	mA
Recommended LC Driving	1 1	o°c	20.3	21.4	22,5	
Voltage for Normal Temp.		25*C	18.0	19,1	20.2	v
Version module		50°C	17.8	18.9	20.0	
LED Forward Voltage	VF	25°C		4.2		٧
LED Forward Current	IF	25*C		900	1800	mΑ
CCFL	VF	25°C		250	590	Vrn5
QQI'L	IF	25 C			5.5	mΑ
EL					5.0	mA



