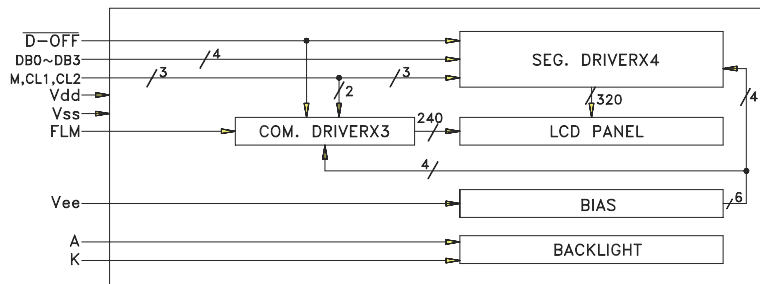
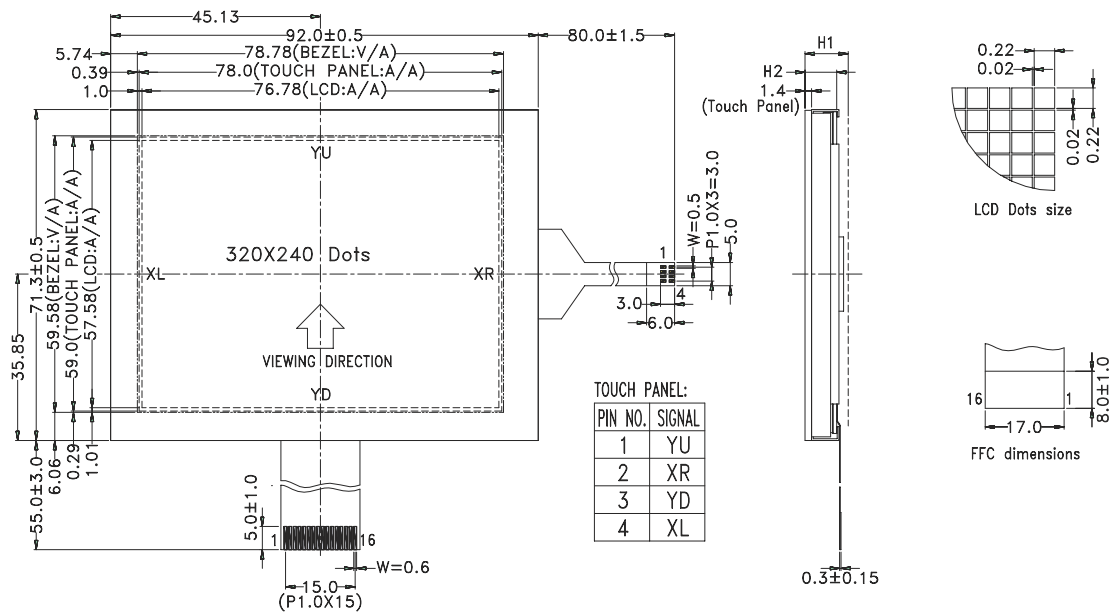


OUTLINE DIMENSION & BLOCK DIAGRAM



MECHANICAL SPECIFICATION

Overall Size	92.0 x 71.3 mm	Module	H2 / H1
View Area	78.78 x 59.58 mm	W/O B/L	- / -
Dot Size	0.22 x 0.22 mm	EL B/L	- / - mm
Dot Pitch	0.24 x 0.24 mm	LED B/L	6.9 / 9.3 mm

PIN ASSIGNMENT

Pin No.	Symbol	Function
1	FLM	Display cycle
2	M	AC signal input
3	CL1	Bi-directional shift register
4	CL2	Clock input pin
5	/D-OFF	Control input
6-9	DB0-3	Display data input
10	VDD	Logic system power supply
11	VSS	Ground
12	VEE	LCD operator voltage
13	VSS	Ground
14	NC	No connection
15	A	Power supply(LED+)
16	K	Power supply (LED-)

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	$V_{DD}-V_{SS}$	25°C	-0.3	7.0	V
LCD driving supply voltage	$V_{DD}-V_{EE}$	25°C	-	21.8	V
Input Voltage	V_{IN}	25°C	-0.3	$V_{DD}+0.3$	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min.		Typical		Max.		Units
Power supply voltage	V _{DD} -V _{SS}	25°C	2.5		5.0		5.5		V
LCD operation voltage	V _{OP}	T _{OP}	N	W	N	W	N	W	V
		-20°C		22.0		22.3		22.6	V
		0°C							V
		25°C		20.7		21.0		21.3	V
		50°C							V
		70°C		18.7		19.0		19.3	V
LCM current consumption (No B/L)	I _{DD}	V _{DD} =5V			12.0		20.0		mA
	I _{EE}	V _{DD} =5V							mA
Backlight current consumption	I _{FLED}	V _{B/L} =3.3V			80.0				mA

REMARK

LCD option: STN, FSTN

Backlight Option: EL, LED