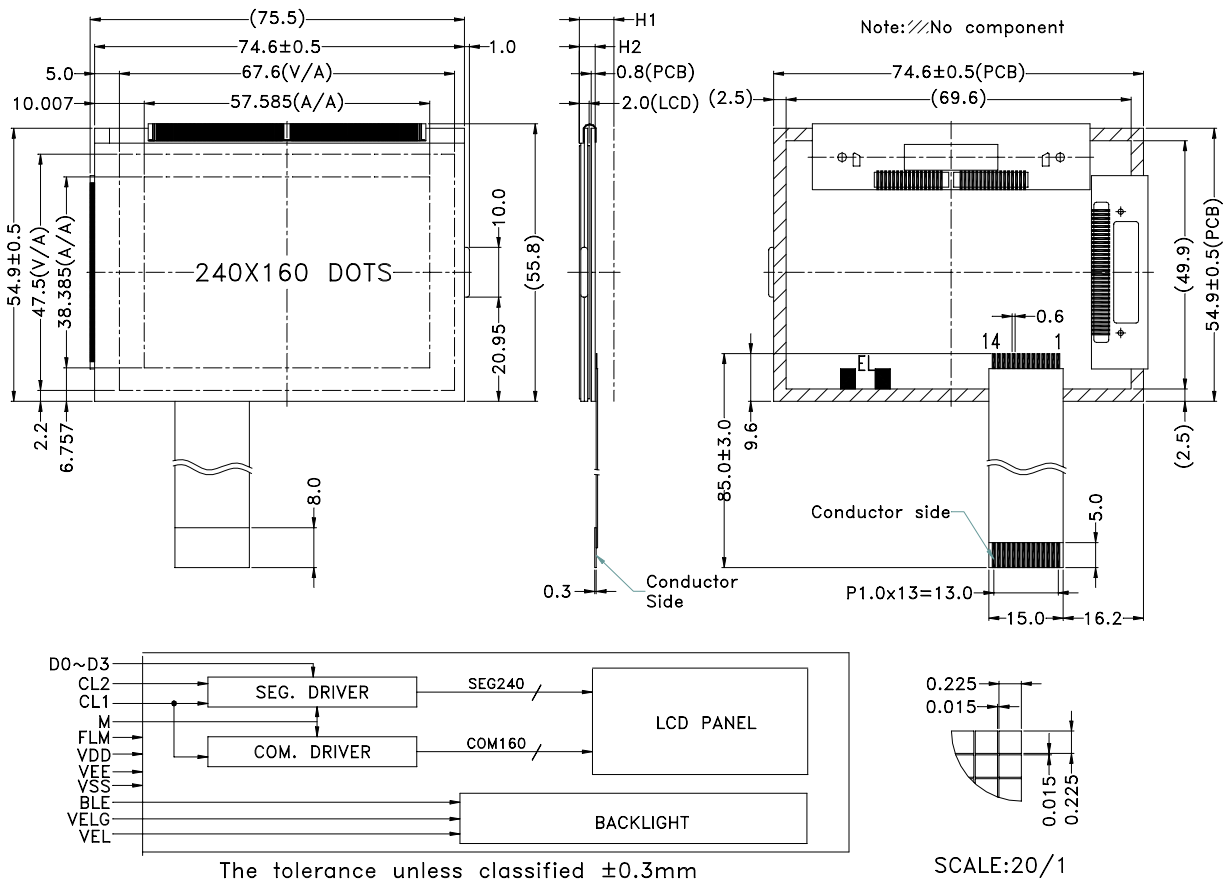


OUTLINE DIMENSION & BLOCK DIAGRAM



MECHNICAL SPECIFICATION

Overall Size	74.6 x 54.9 mm	Module	H2 / H1
View Area	67.6 x 47.5 mm	W/O B/L	2.9 / 5.0
Dot Size	0.225 x 0.225 mm	EL B/L	3.2 / 7.0
Dot Pitch	0.24 x 0.24 mm	LED B/L	- / -

PIN ASSIGNMENT

Pin No.	Symbol	Function
1	CL2(SCP)	Data shift pulse
2	CL1(LP)	Data latch pulse
3	FLM	Scan start-up signal
4	M	Frame reverse signal(Alternate signal)
5	D0	Data display
6	D1	Data display
7	D2	Data display
8	D3	Data display
9	VEE	Power supply voltage for LCD(+V)
10	VDD	Power supply voltage for logic
11	VSS	Ground
12	BLE	EL enable/disable
13	VELG	Power supply for EL(-)
14	VEL	Power supply for EL(+)

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	-0.3	30.0	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	4.5		5.0		5.5		V
LCD operation voltage	V _{OP}	T _{OP}	N	W	N	W	N	W	V
		-20°C	-	-	-	21.5	-	-	V
		0°C	-	20.1	-	20.7	-	21.3	V
		25°C	-	19.6	-	19.6	-	20.2	V
		50°C	-	18.6	-	18.7	-	19.3	V
		70°C	-	-	-	17.7	-	-	V
LCM current consumption (No B/L)	I _{DD}	V _{DD} =5V	-		0.3		-		mA
	I _{EE}	V _{DD} =5V	-		3.0		-		mA
Backlight current consumption	EL	V _{OP} =5V	-		40.0		--		mA

REMARK

LCD option: STN, FSTN

Backlight Option: EL backlight feature, other specs not available on catalog is under request.