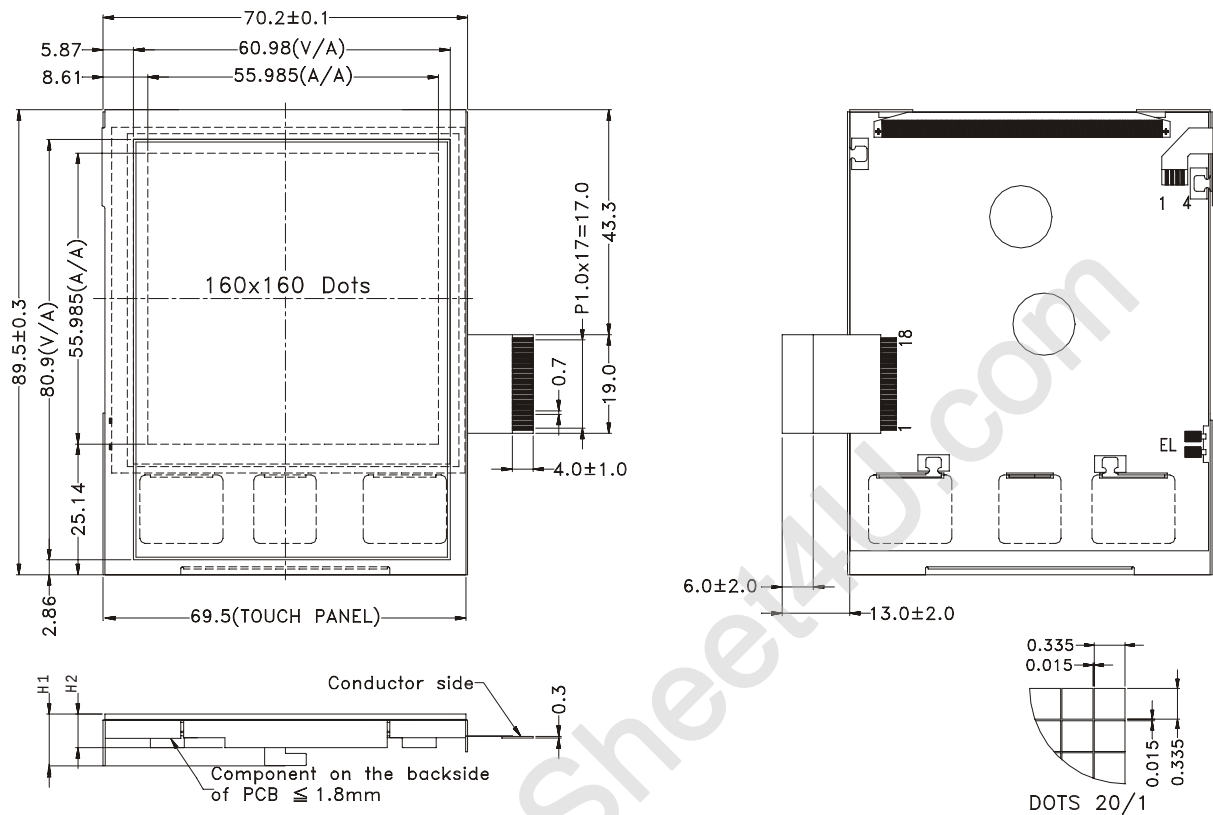


OUTLINE DIMENSION & BLOCK DIAGRAM



MECHANICAL SPECIFICATION

Overall Size	70.2 x 89.5 mm	Module	H2 / H1
View Area	60.98 x 80.9 mm	W/O B/L	6.50 / 10.2
Dot Size	0.335 x 0.335 mm	EL B/L	6.50 / 10.2
Dot Pitch	0.35 x 0.35 mm	LED B/L	- / -

PIN ASSIGNMENT

Pin No.	Symbol	Function
1	VSS	Ground
2	FLM	Scan start-up signal
3	CL1	Data shift pulse
4	CL2	Data latch pulse
5	M	Fram reverse signal(Alternate signal)
6	VDD	Power supply voltage for logic
7	BLE	EL enable/disable
8	VEE	Power supply voltage for LCD(+)
9	D3	Data display
10	D2	Data display
11	D1	Data display
12	D0	Data display
13	TP_L	Analog Touch Panel-Left signal
14	TP_U	Analog Touch Panel-Up signal
15	TP_R	Analog Touch Panel-Right signal
16	TP_D	Analog Touch Panel-Down signal
17	VSS	Ground
18	VSS	Ground

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	2.7		3.0		3.3		V
LCD operation voltage	V _{OP}	T _{OP}	N	W	N	W	N	W	V
		-20°C	-	-	-	20.6	-	-	V
		0°C	-	19.4	-	19.6	-	20.2	V
		25°C	-	18.4	-	19.0	-	19.6	V
		50°C	-	17.6	-	18.1	-	18.6	V
		70°C	-	-	-	17.5	-	-	V
LCM current consumption (No B/L)	I _{DD}	V _{DD} =3V	-		0.3		-		mA
	I _{EE}	V _{DD} =3V	-		1.5		-		mA
Backlight current consumption	EL	V _{OP} =3V	-		40.0		--		mA

REMARK

LCD option: STN, FSTN

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