



NAN YA LCD News Letter

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NAN YA Plastics Corp.

Electronic Materials Div.

LCD Dept.

Palm Size 160 x 160 color STN --- LCC77T491M

The LCC77T491M color STN module has been designed to give a small form factor display with excellent optical characteristics typically required for PDA and hand held device applications. The dimension of LCC77T491M is similar to the mono LCM size palm PDA units.

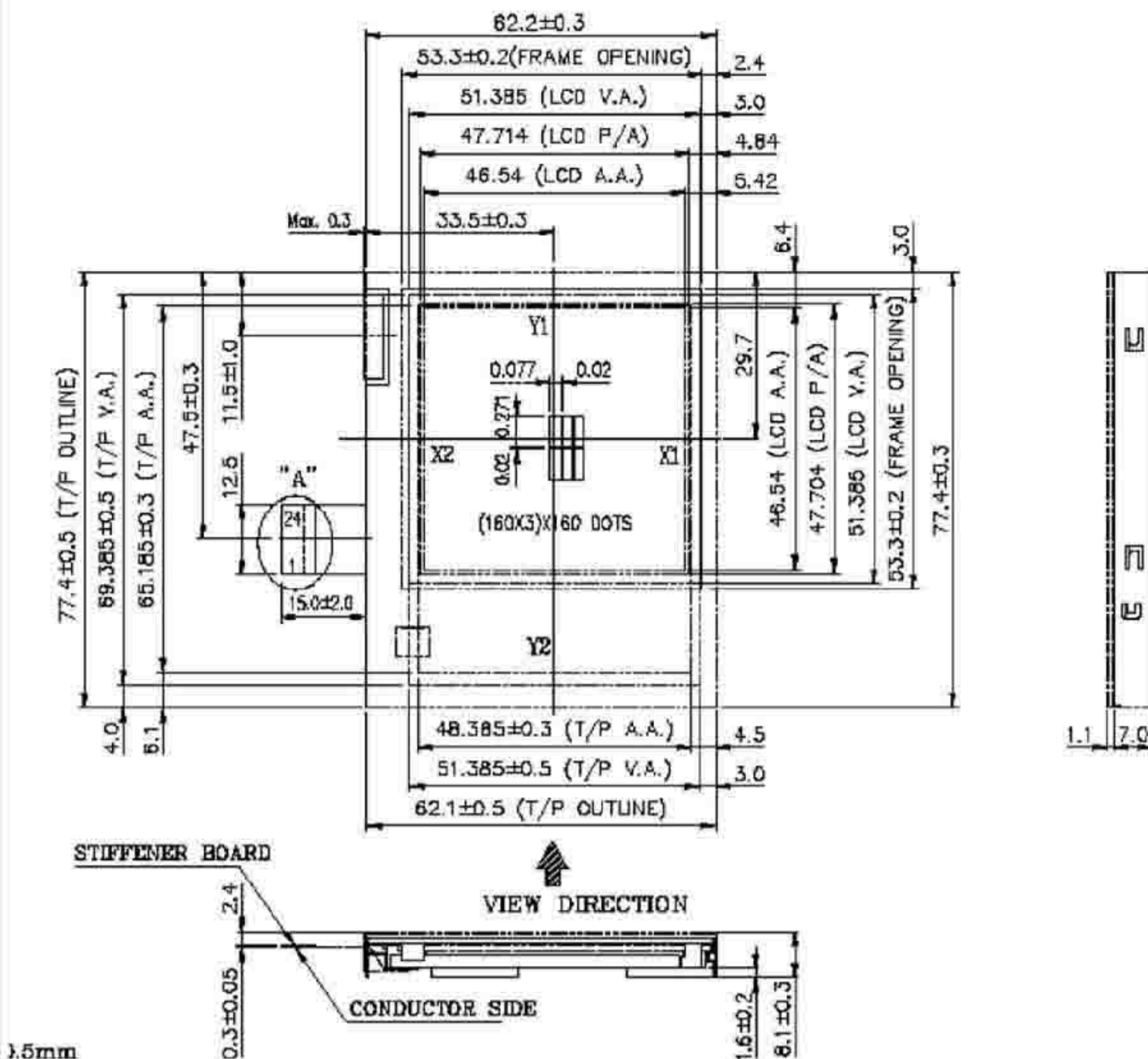
Features :

- Small frame edge and thickness facilitate and extremely compact design.
- Excellent color saturation providing high readability and color performance.
- Build-in White LED backlight
- Optional touch panel version available.
- High brightness and extremely low power consumption.

General Specification :

Part Number	LCC77T491M
Diagonal screen size	3.0 inch
Resolution (pixels)	160 x R,G,B x 160 dots
Driving Duty	1/160 duty
Backlight	White LED
Outer Dimensions	62.2 x 77.4 x 7.0 (excluding T/P)
Viewing Area	51.385 x 51.385
Viewing Direction	6 o'clock
Dot Pitch	0.097 x 0.291
Contrast	25 : 1
Response time	320 msec
Brightness	50 cd/m2 @ 0.4 W
Logic Power Supply	3.3 volt
Power Consumption	0.25 W @ 38 cd/m2 ; 0.35W@47 cd/m2

Drawing:



Interface:

PIN NO	SYMBOL	LEVEL	FUNCTION	PIN NO	SYMBOL	LEVEL	FUNCTION
1	VF(-)		POWER SUPPLY FOR LED BACKLIGHT	13	CL2	H→L	DATA SHIFT
2	VF(+)		POWER SUPPLY FOR LED BACKLIGHT	14	CL1	H→L	DATA LATCH
3	D0	H/L	DISPLAY DATA	15	DISP.OFF	H/L	H : ON / L : OFF
4	D1	H/L	DISPLAY DATA	16	VDD		POWER SUPPLY FOR LOGIC
5	D2	H/L	DISPLAY DATA	17	VDD		POWER SUPPLY FOR LOGIC
6	D3	H/L	DISPLAY DATA	18	M	H/L	AC SIGNAL INPUT FOR LCD DRIVE WAVEFORM
7	D4	H/L	DISPLAY DATA	19	FLM	H	FIRST LINE MARKER
8	D5	H/L	DISPLAY DATA	20	VCH		POWER SUPPLY FOR LCD
9	D6	H/L	DISPLAY DATA	21	X(L)		ANALOG SIGNAL TOUCH PANEL
10	D7	H/L	DISPLAY DATA	22	Y(T)		ANALOG SIGNAL TOUCH PANEL
11	VSS		GND	23	X(R)		ANALOG SIGNAL TOUCH PANEL
12	VSS		GND	24	Y(B)		ANALOG SIGNAL TOUCH PANEL