

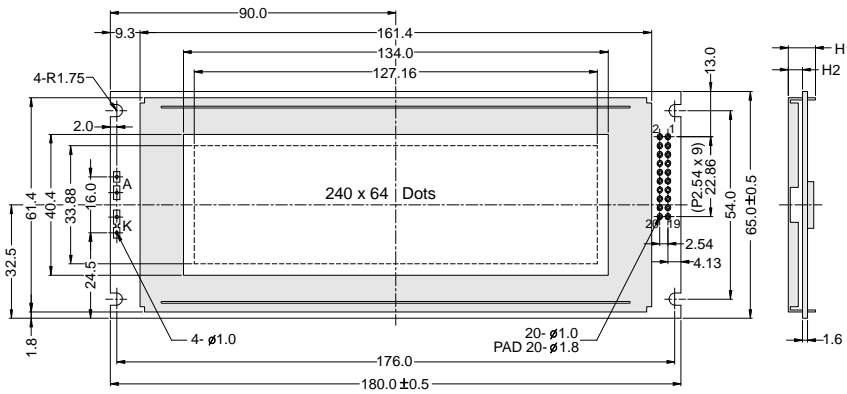
PG 24064-F/F

液晶之友 电话: 020-33819057
 BLOCK DIAGRAM
[Http://www.lcdfriends.com](http://www.lcdfriends.com)

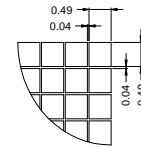
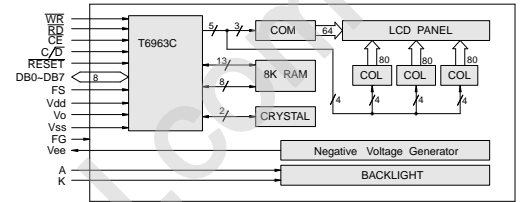
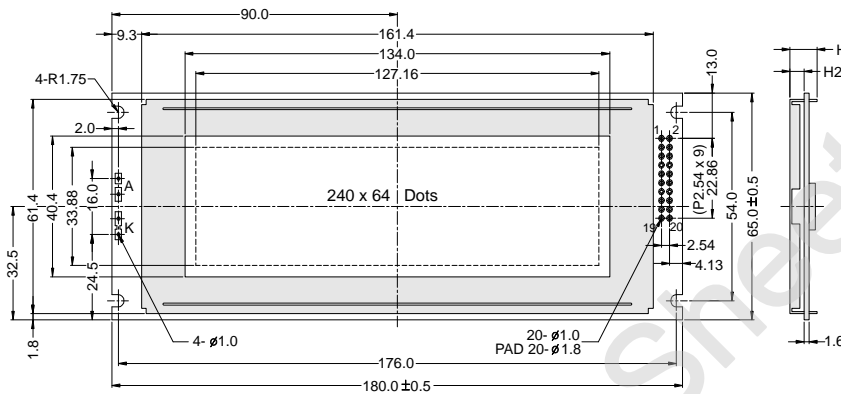


OUTLINE DIMENSION

PG 24064-E



PG 24064-F



The tolerance unless classified ± 0.3mm

MECHANICAL SPECIFICATION

Overall Size	200.0 x 66.0	Module	H2 / H1
View Area	134.0 x 40.4	W/O B/L	4.5 / 8.6
Dot Size	0.49 x 0.49	EL B/L	4.5 / 8.6
Dot Pitch	0.53 x 0.53	LED / CCFL B/L	9.2 / 13.3

PIN ASSIGNMENT

Pin no.	Symbol	Function
1	FG	Frame ground
2	Vss	Power supply(GND)
3	Vdd	Power supply(+)
4	Vo	Contrast Adjust
5	WR	Data write
6	RD	Data read
7	CE	Chip enable
8	C/D	Command / data select
9	Vee	Negative output
10	RST	Reset
11-18	DB0-DB7	Data bus line
19	FS	Font selection
20	NC	No connection

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	Vdd-Vss	25°C	-0.3	7.0	V
LCD driving supply voltage	Vdd-Vee	25°C	0	22.0	V
Input voltage	Vin	25°C	-0.3	Vdd+0.3	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typical	Max.	Units			
Power supply voltage	Vdd-Vss	25°C	4.5	-	5.5	V			
LCD operation voltage	Vop	Top	N	W	N	W	V		
		-20°C	-	14.3	-	14.7	-	V	
		0°C	9.7	-	10.2	-	10.7	V	
		25°C	8.9	13.2	9.4	13.6	9.9	14	V
		50°C	8.6	-	9.1	-	9.6	-	V
		70°C	-	12	-	12.4	-	V	
LCM current consumption (No B/L)	Idd	Vdd=5V	-	10	-	mA			
Backlight current consumption	LED/edge	VB/L=3.5V	-	80	-	mA			
	LED/array	VB/L=4.2V	-	650	-	mA			

REMARK

LCD option: STN, TN, FSTN

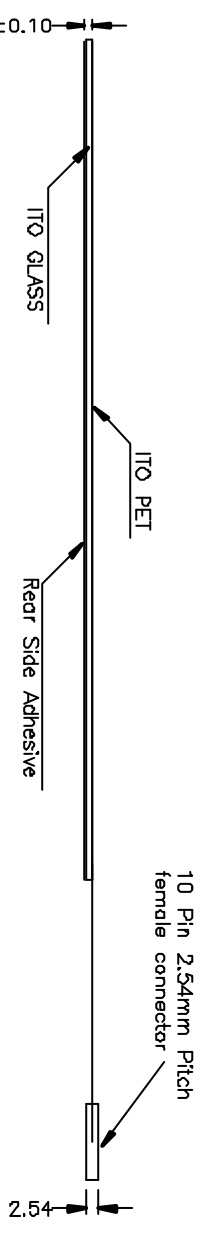
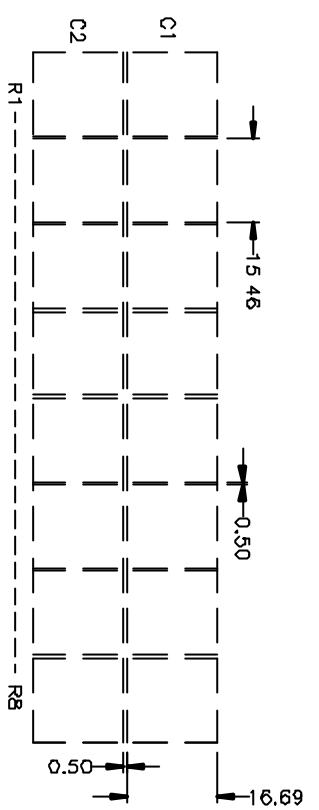
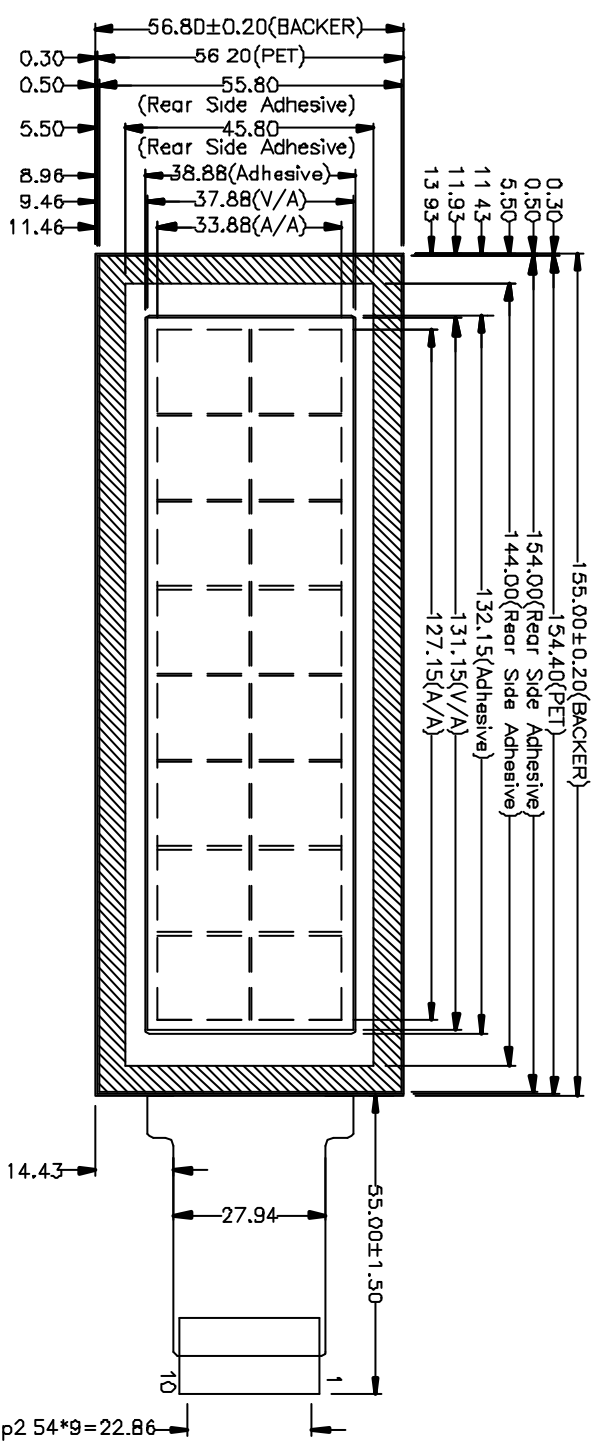
Backlight Option: LED, EL Backlight feature, other Specs not available on catalog is under request.



8*2 Matrix Touch Screen 87131

FRONT VIEW

Pin #	Assignment
1	C1
2	C2
3	R1
4	R2
5	R3
6	R4
7	R8
8	R7
9	R5
10	R6



- NOTES:
1. ITO GLASS THICKNESS : 1.10mm
 2. OVERALL THICKNESS : 1.50±0.10mm
 3. CONNECTOR AND PINOUT AS INDICATED
 4. LAYER TO LAYER ASSEMBLY TOLERANCE: ±0.30mm
 5. CLOSED CIRCUIT RESISTANCE: 10K OHMS MAX.

NO.	DATE	DESCRIPTION	CHK
REVISION			
1		APPROVED	Alex
DESIGNER			
ENGINEER			
DRAWN BY Jerry			
DATE JUL 21, 2002			
SHT 1 OF 1			
REV			

TOLERANCES UNLESS SPECIFIED	PROJECT NAME: 87131
± 0.50	DWG NO: 87131-0-01
± 0.50	SCALE: 1:1 UNIT: mm
± 0.30	

Apex Material Technology Corp.