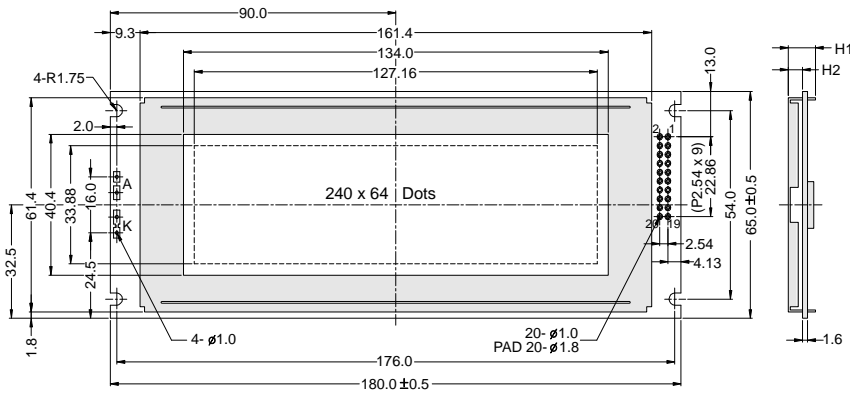


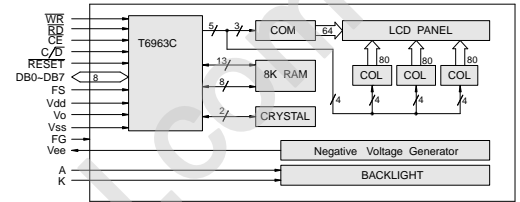
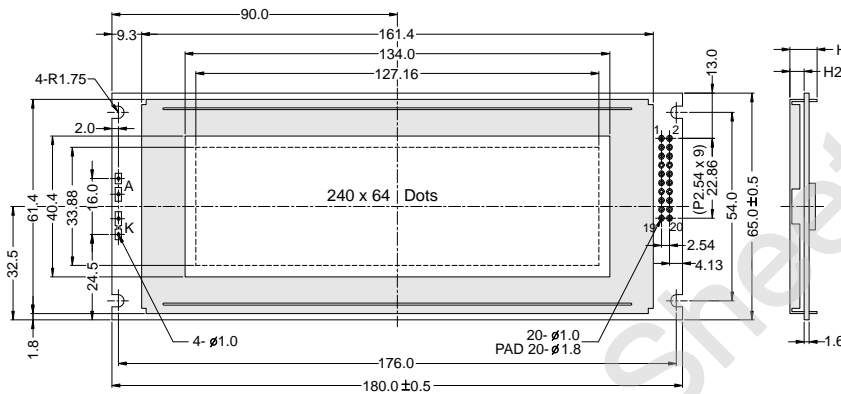


OUTLINE DIMENSION

PG 24064-E



PG 24064-F



The tolerance unless classified $\pm 0.3\text{mm}$

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

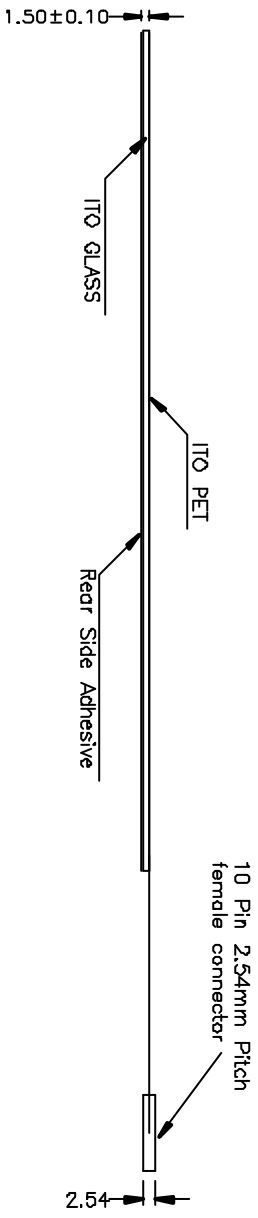
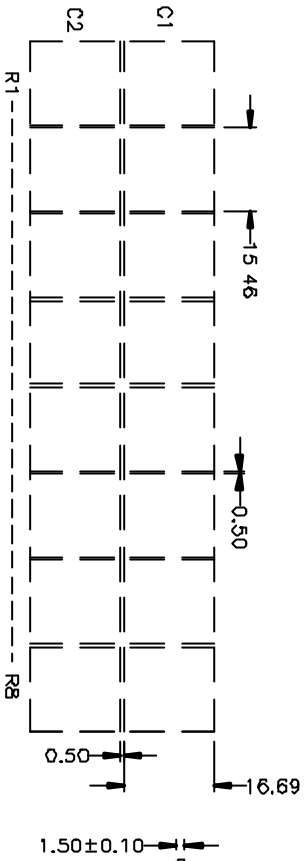
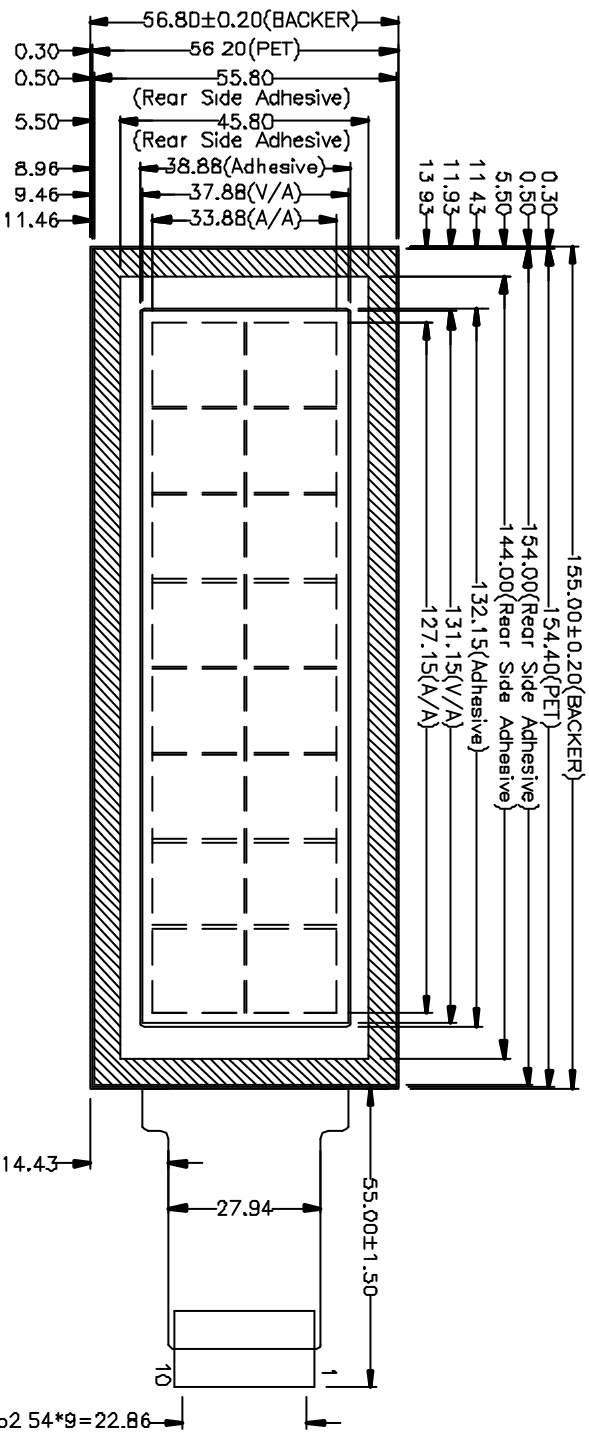
Backlight Option: LED, EL Backlight feature, other Specs not available on catalog is under request.



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
2		PROJ. MANAGER	
DRAWN BY Jerry DATE JUL 21, 2002			
SHT 1 OF 1 REV			

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

Apex Material Technology Corp.