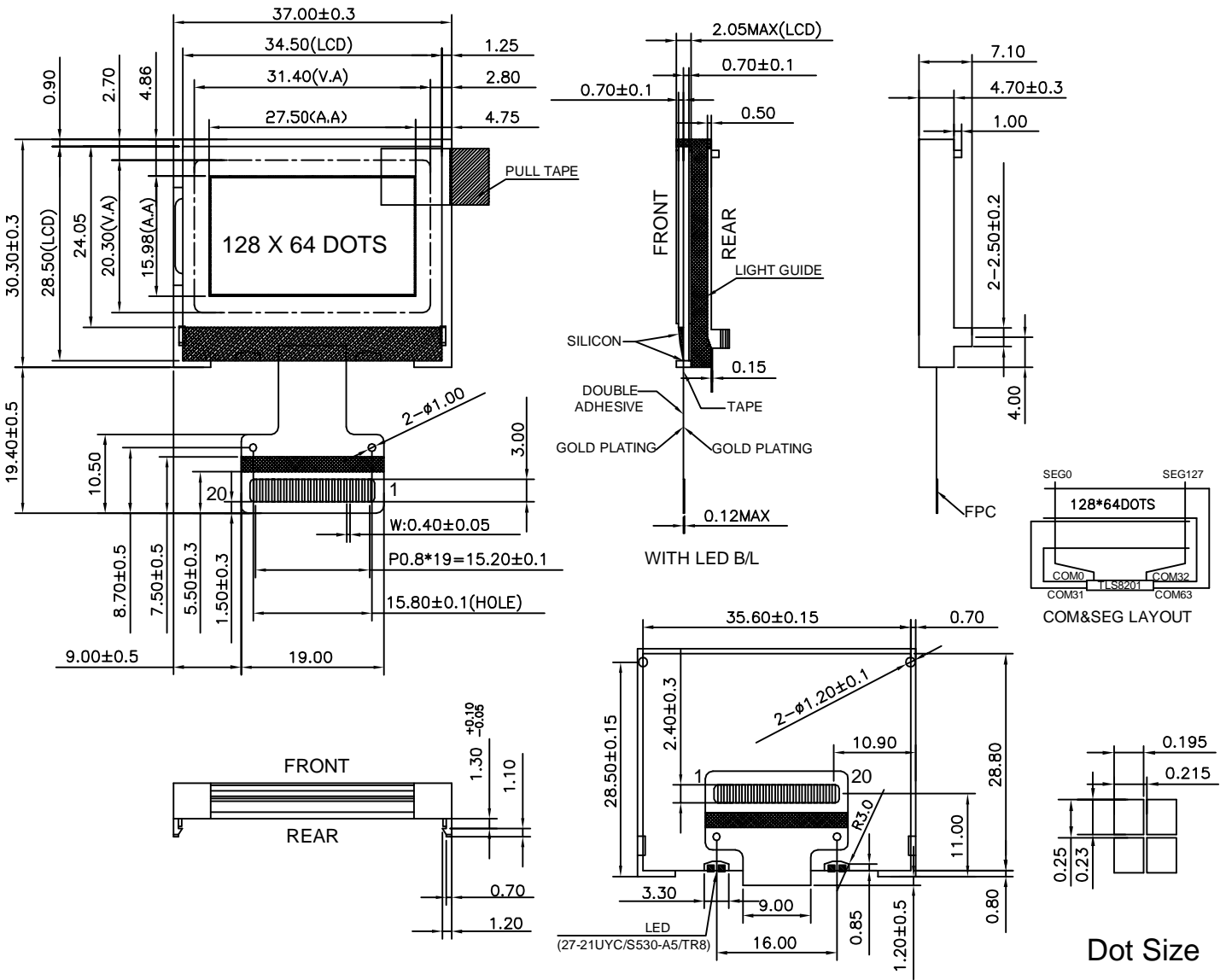


PG-120653 Series

OUTLINE DIMENSION



MECHANICAL DIMENSION	
Overall Dimension (mm)	37.0 X 30.3 X 7.1
Viewing Area (mm)	31.4 X 20.3
Format	128 SEG x 64 COM
Dot Size (mm)	0.195 X 0.23
Dot Pitch (mm)	0.215 X 0.25

ABSOLUTE MAXIMUM RATINGS				
Parameter	Symbol	MIN	MAX	Unit
Supply Voltage for Logic	V _{dd-Vss}	-0.3	3.6	V
Supply Voltage for LCD	V _{lcd}			V
Input Voltage	V _{in}			V

ELECTRICAL CHARACTERISTICS (V _{DD} =5.0V ; Top=25° C)					
Parameter	Symbol	MIN	Typical	MAX	Unit
Power Supply Voltage	V _{dd-Vss}		3.0		V
LCD Operating Voltage	V _{op}		9.0		V
LCM Current Consumption	I _{dd}				mA
Backlight Current Consumption	LED (Edge)				mA
	LED (Array)				mA
Driving Method	1/65 Duty 1/9 Bias				

PIN ASSIGNMENT			
Pin No.	Symbol	Pin No.	Symbol
1	NC	11	C1N
2	/CS1	12	C1P
3	/RES	13	C2P
4	A0	14	C2N
5	SCL	15	V4
6	SI	16	V3
7	VDD	17	V2
8	VSS	18	V1
9	VOUT	19	V0
10	C3P	20	NC

NOTES
IC Controller / Driver: TLS8201 (or Compatible)
LCD : FSTN,Y/G STN,Negative FSTN
 Negative FFSTN
 White LED, YELLOW-GREEN LED
Backlight :
Viewing Angle: 6:00,12:00
Operating Temperature : -20° C~+70° C
Storage Temperature : -30° C~+80° C