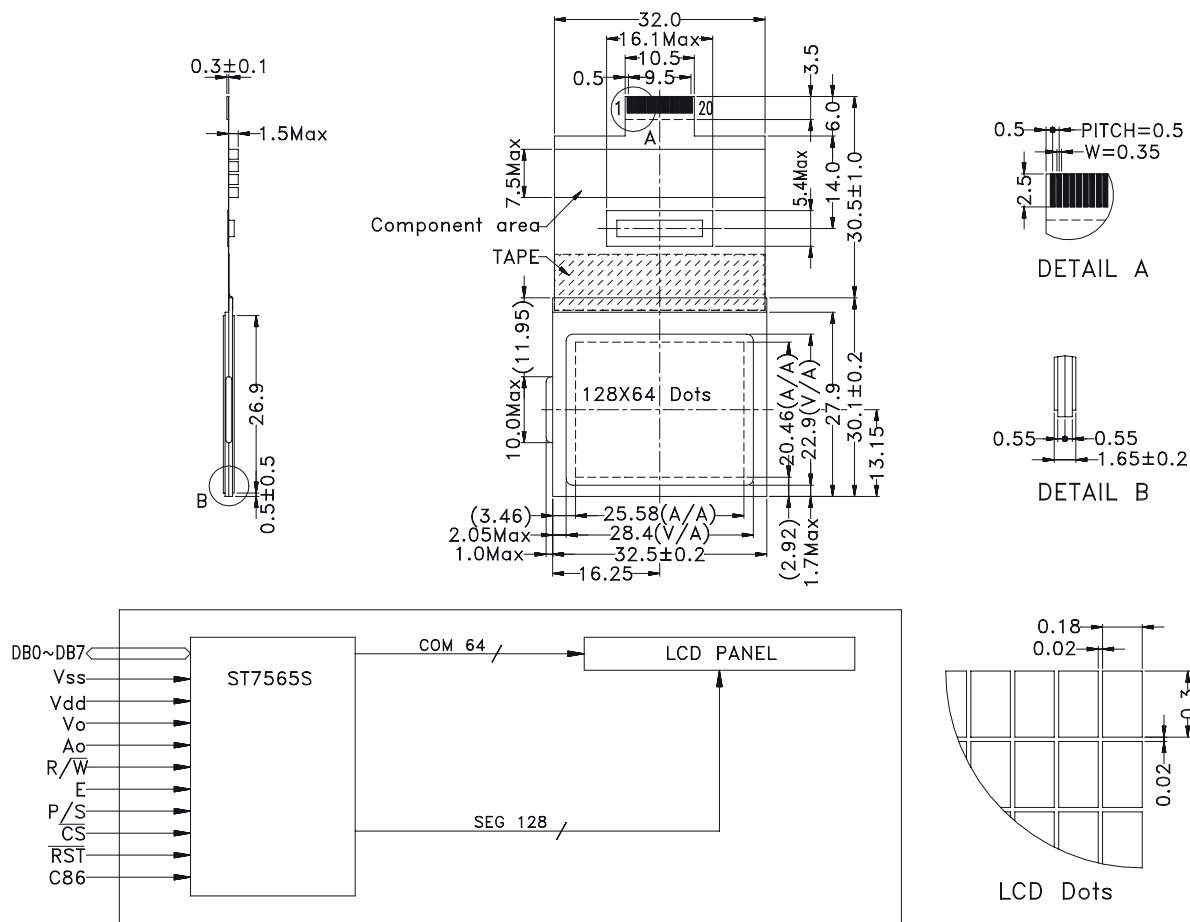


OUTLINE DIMENSION & BLOCK DIAGRAM



MECHANICAL SPECIFICATION

Overall Size	32.50 x 60.6 mm	Module	H2 / H1
View Area	28.40 x 22.90 mm	W/O B/L	- / 1.65
Dot Size	0.18 x 0.30 mm	EL B/L	- / -
Dot Pitch	0.20 x 0.32 mm	LED B/L	- / -

PIN ASSIGNMENT

Pin No.	Symbol	Function
1	Vss	Power supply -
2	Vdd	Power supply +
3	/CS	Chip select
4	/RST	Reset
5	A0	Control/display data input
6	R/W	8080 write; 6800 read/write
7	E	8080 read; 6800 enable
8-15	DB0-DB7	Data bus
16	Vo	Contrast adjust
17	C86	CPU mode 6800/8080 select
18	P/S	Parallel/serial select
19	NC	No connection
20	NC	No connection

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	V _{DD-VSS}	25°C	2.0	5.5	V
LCD driving supply voltage	V _{DD-V5}	25°C	-4.0	-13.0	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-VSS}	25°C	1.8	3.0	3.3	V			
LCD operation voltage	V _{OP}	T _{OP}	N	W	N	W	V		
		-20°C	-	10.3	-	10.5	-	10.7	V
		0°C	-	-	-	-	-	-	V
		25°C	-	9.8	-	10.1	-	10.2	V
		50°C	-	-	-	-	-	-	V
		70°C	-	7.9	-	8.1	-	8.3	V
LCM current consumption (No B/L)	I _{DD}	V _{DD} =3.0V	-	0.3	0.6	mA			
	-	-	-	-	-	mA			
Backlight current consumption	-	-	-	-	--	mA			

REMARK

LCD option: STN, FSTN

Backlight Option: under request.