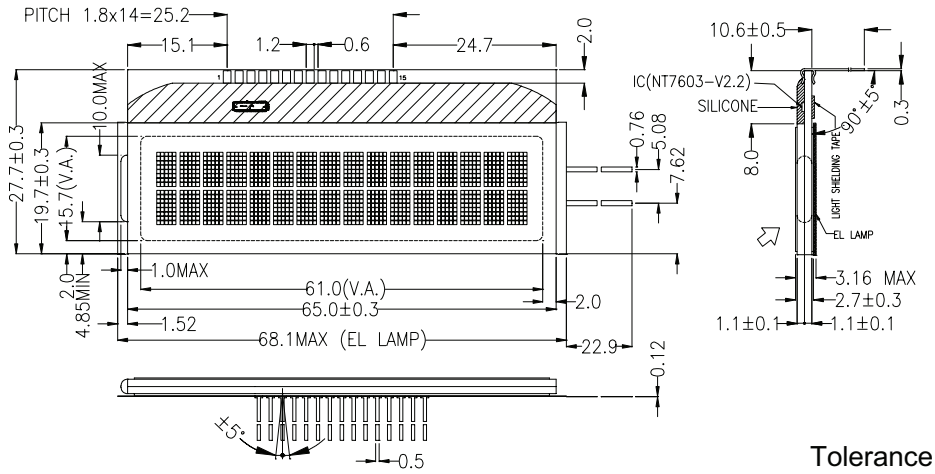
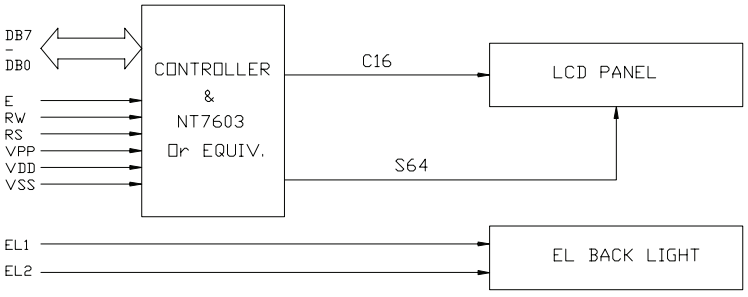
OUTLINE DIMENSION

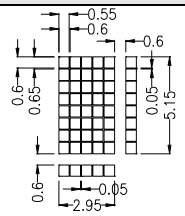


Tolerance: ± 0.20mm, unless otherwise specified.

BLOCK DIAGRAM



DISPLAY PATTERN



MECHANICAL SPECIFICATION

Item	Dimensions(W)X(H)	Unit
Overall Size	65.0 × 27.7	MM
View Area	61.0 × 15.7	MM
Character	2.95 × 5.15	MM
Dot Size	0.55 × 0.60	MM
Dot Pitch	0.60 × 0.65	MM

PIN ASSIGNMENT

Pin no	Symbol	Function
1	GND	GND:0V
2	V5	Power supply for LCD driver
3	Vcc	+5V
4	RS	Register select signal 0:Instruction register(write), Busy flag, address counter (read) 1:Data register (write, read)
5	R/W	Read/Write control signal 0:Write 1:Read
6	E	Read/Write start signal
7-10	DB0~DB3	Lower 4 tri-state bi-directional data bus for transmitting data between MPU and NT7603.Not used during 4-bit operation.
11-14	DB4~DB4	Higher 4 tri-state bi-directional data bus for transmitting data between MPU and NT603.DB7 is also used as a busy flag.
15	NC	No connector

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min	Max	Unit
Supply for logic voltage	V_{DD}	25℃	-0.3	7.0	V
Power supply voltage	V_1-V_5	25℃	GND	V_{DD}+0.3	V
Input voltage	VI	25℃	-0.3	V_{DD}+0.3	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typical	Max	Unit
Supply voltage for logic	Vcc	---	2.8	5.0	5.5	V
Supply current for logic	IOP	---	---	1.0	1.5	mA
Operation voltage for LCD	VLCD	---	3.0	---	Vcc	V
Input voltage " H" level	VIH	---	0.8	---	Vcc	V
Input voltage " L" level	VIL	---	-0.3	---	0.2 Vcc	V
Supply voltage for EL	VF	---	---	85	100	V
Supply Frequency EL	Freq	---	---	600	1000	Hz

REMARKS:

1. LCD type: STN.
2. Back light type: EL back light feature.