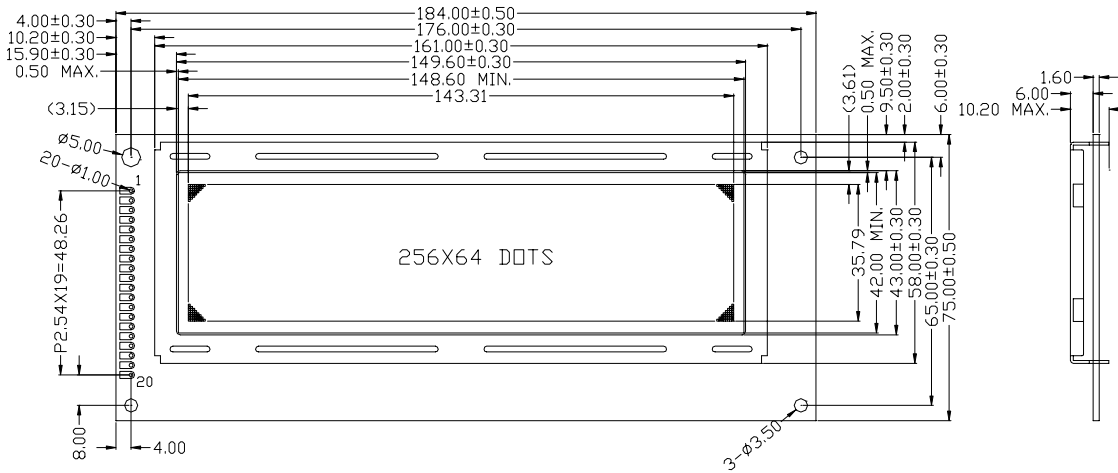


Standard LCD module

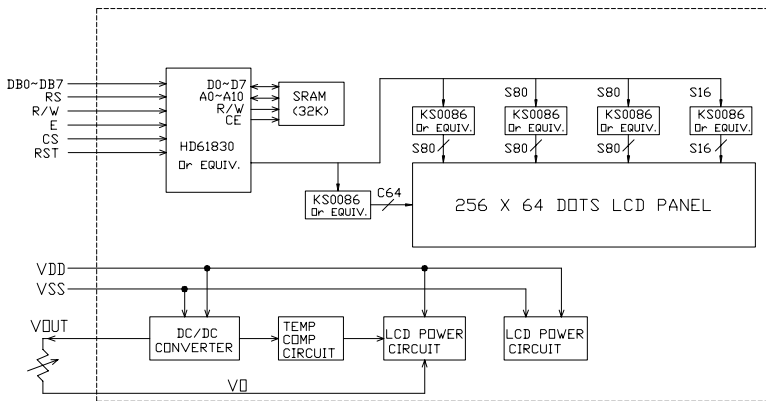
MG25664-01

OUTLINE DIMENSION

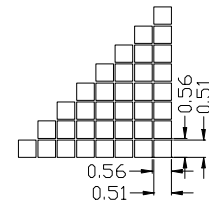


Tolerance: $\pm 0.20\text{mm}$, unless otherwise specified.

BLOCK DIAGRAM



DISPLAY PATTERN



MECHANICAL SPECIFICATION

Item	Dimensions(W)X(H)	Unit
Overall Size	184.0×75.0	MM
View Area	149.6×43.0	MM
Dot Size	0.51×0.51	MM
Dot Pitch	0.56×0.56	MM

PIN ASSIGNMENT

Pin no	Symbol	Function
1	VSS	Ground
2	VDD	Supply voltage for logic
3	VO	Contrast adjust
4	RS	Data / Instruction signal
5	R/W	Read / Write signal
6	E	Clock
7-14	DB0-DB7	Data bus line
15	CS	Chip select signal
16	RES	Reset signal
17	VEE	Voltage booster output
18-20	NC	No connection

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min	Max	Unit
Supply for logic voltage	VDD-VSS	---	0	6.5	V
LCD driving supply voltage	VDD-VO	---	0	16.0	V
Input voltage	VI	---	VSS	VDD	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typical	Max	Unit
Supply voltage for logic	VDD-VSS	---	4.75	5.0	5.25	V
Supply voltage for LCD	VEE-VSS	---	-10.25	-10.5	-10.75	V
LCD operation voltage	VDD- VO	0°C	---	14.1	---	V
		25°C	---	13.3	---	V
		40°C	---	12.8	---	V
Input voltage "H" level	VIH	---	0.8VDD	---	VDD	V
Input voltage "L" level	VIL	---	0	---	0.2VDD	V

REMARKS:

- LCD options: STN, FSTN.
- Back light type: Without back light feature.