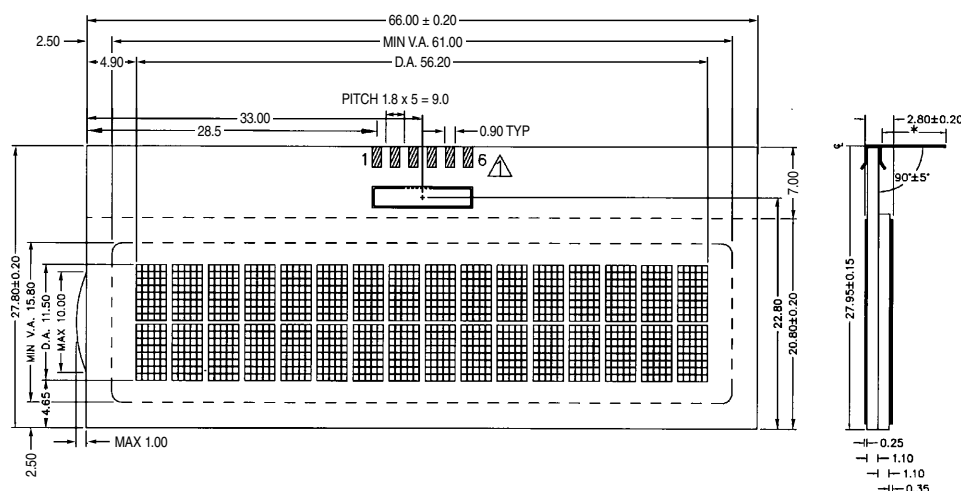


BT 21605 COG I²C bus

Data Modul Inc. - 120 Commerce Drive - Hauppauge New York 11788
Tel. 631-951-0800 - Fax 631-9512121 - www.datamodul.com

2 Lines x 16 Characters

Character
LCD Modules



Dimensions [mm]

MECHANICAL DATA

Parameter	Width x Height x Depth	Unit
Outline Dimensions	67 x 27.80 x 2.80	mm
Effective viewing area	61.0 x 15.8	mm
Dot Size	0.55 x 0.65	mm
Dot Pitch	0.60 x 0.70	mm
Character Matrix	5 x 7	dots
Character Size	2.95 x 5.55	mm
Character Pitch	3.55 x 5.95	mm
Weight	tbd	g

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.5	4.0	V
Input Voltage Range	V _i	-0.5	V _{DD} +0.5	V
Input Voltage Range (LCD)	V _{LCD}	-0.5	6.5	V
Operating Temperature	T _{OP}	-10	50	°C
Storage Temperature	T _{ST}	-20	60	°C

ELECTRICAL CHARACTERISTICS

Condition: Ta = 25°C, V_{DD} = 3.0 ± 0.15 V

Parameter	Symbol	Min.	Typ	Max.	Unit
Input Voltage HIGH	V _{INH}	0.7 V _{DD}	---	5.5	V
Input Voltage LOW	V _{INL}	0	---	0.3 V _{DD}	V
Operating Voltage (Logic)	V _{DD} -V _{SS}	2.85	3.00	3.15	V
Operating Voltage (LCD)	V _{LCD} -V _{SS}	4.70	5.00	5.20	V
Operating Supply Current	I _{DD}	---	0.26	0.45	V

PIN TABLE

Pin	Symbol	Signal Description
1	V _{LCD}	LCD Driver Voltage
2	V _{SS}	GND (0 V)
3	V _{DD}	Power Supply (Logic)
4	SDA	Serial Data Input/Output
5	POR	External Power On Reset
6	SCL	Serial Clock Input

ADDITIONAL INFORMATION

- ◆ Device Address is
1110110 (76hex) (write)
1110111 (77hex) (read)
- ◆ Controller Type - PCF 2119 (1) or compatible

BLOCK DIAGRAM

