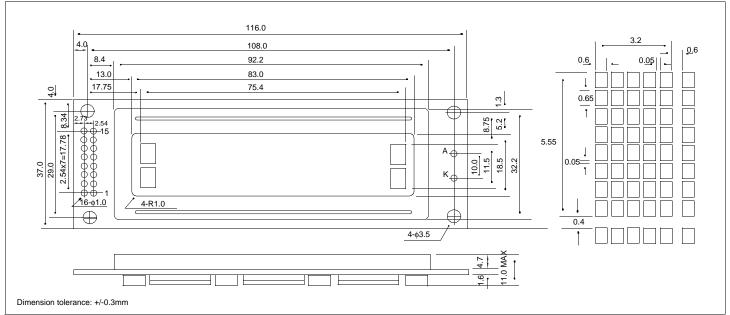
20 Character x 2 Lines

Dimensional Drawing



Features

Physical Data

Module Size......116.0W x 37.0H x 11.0T mm Viewing Area Size.....83.0W x 18.6H mm Weight.....30g

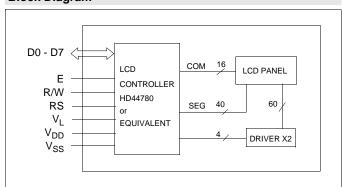
Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT			
SUPPLY VOLTAGE	V_{DD} - V_{SS}	0	7.0	V			
SUPPLY VOLTAGE FOR LCD	V_{DD} - V_{L}	0	13.5	V			
INPUT VOLTAGE	V _{IN}	V_{SS}	V_{DD}	V			
OPERATING TEMPERATURE	T _{OP}	0	50	°C			
STORAGE TEMPERATURE	T _{STG}	-20	70	°C			

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V_{IH}	-	2.2	-	-	V
INPUT LOW VOLTAGE	V_{IL}	-	-	-	.6	V
OUTPUT HIGH VOLTAGE	V_{OH}	I _{OH} =0.2mA	2.4	-	-	V
OUTPUT LOW VOLTAGE	V_{OL}	I _{OL} =1.2mA	-	-	0.4	V
POWER SUPPLY CURRENT	I _{DD}	V _{DD} =5.0V	-	1.0	2.2	mA
POWER SUPPLY FOR LCD	V_{DD} - V_{L}	TA=25°C	4.3	-	4.7	V
DRIVE METHOD	1/16 Duty					

Block Diagram



Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION				
1	V_{SS}	-	OV				
2	V_{DD}	-	5V	Power supply			
3	V_L	-	-	113			
4	RS	H/L	H: Data input L: Instruction data input				
5	R/W	H/L	H: Data read L: Data write				
6	E	H,H→L	Enable signal				
7	D0	H/L					
8	D1	H/L	Data bus				
9	D2	H/L					
10	D3	H/L					
11	D4	H/L					
12	D5	H/L					
13	D6	H/L					
14	D7	H/L					