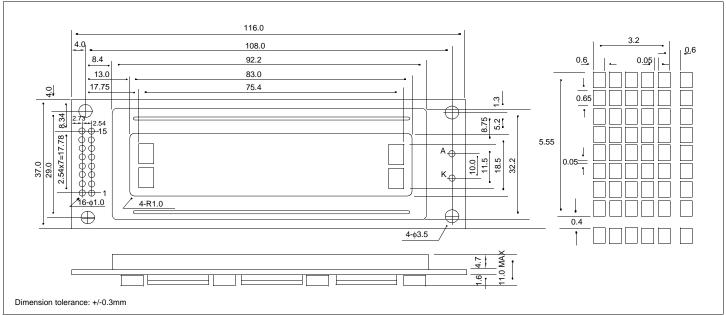
20 Character x 2 Lines

Dimensional Drawing



Features

Physical Data

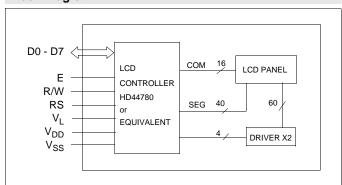
Absolute Maximum Ratings

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

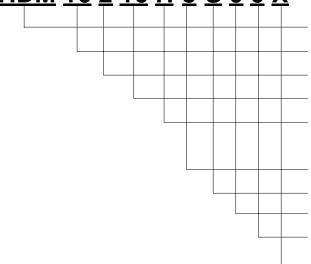


Pin Connections

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			

PART NUMBER BREAKDOWN (Character)

HDM 16 2 16 H-5-S 0 0 X



HANTRONIX DISPLAY MODULE
of Characters per Line
of Lines
Duty Cycle
Type of Backlight

Type of Backlight

H = EL or No backlight

L = LED Backlight

SIZE Code

LCD Type (*1)

Back Light/Viewing Angle (*2)

Custom / Option Code

Internal Stock Code

LCD TYPE (*1)

OPTION	LCD TYPE	POLARIZER	LCD POWER	TEMPARATURE			
0	TN	REFLECTIVE	SINGLE	NORMAL			
3	TN	REFLECTIVE	DUAL	WIDE			
4	TN	TRANSFLECTIVE	SINGLE	NORMAL			
7	TN	TRANSFLECTIVE	DUAL	WIDE			
8	TN	TRANSMISSIVE	SINGLE	NORMAL			
В	TN	TRANSMISSIVE	DUAL	WIDE			
D	YELLOW STN	REFLECTIVE	DUAL	WIDE			
E	YELLOW STN	TRANSFLECTIVE	DUAL	WIDE			
F	YELLOW STN	TRANSMISSIVE	SINGLE	WIDE			
G	YELLOW STN	TRANSMISSIVE	DUAL	WIDE			
Н	YELLOW STN	REFLECTIVE	SINGLE	NORMAL			
I	GRAY STN	TRANSMISSIVE	SINGLE	NORMAL			
J	YELLOW STN	REFLECTIVE	DUAL	NORMAL			
L	YELLOW STN	TRANSFLECTIVE	SINGLE	NORMAL			
N	YELLOW STN	TRANSFLECTIVE	DUAL	NORMAL			
Р	GRAY STN	REFLECTIVE	DUAL	WIDE			
R	GRAY STN	REFLECTIVE	DUAL	NORMAL			
S	GRAY STN	REFLECTIVE	SINGLE	NORMAL			
T	GRAY STN	TRANSFLECTIVE	DUAL	NORMAL			
U	GRAY STN	TRANSFLECTIVE	SINGLE	NORMAL			
٧	YELLOW STN	TRANSMISSIVE	SINGLE	NORMAL			
W	GRAY STN	TRANSMISSIVE	DUAL	NORMAL			
Х	GRAY STN	TRANSFLECTIVE	DUAL	WIDE			
1	FSTN	REFLECTIVE, ANTI GLARE	SINGLE	NORMAL			
2	FSTN	REFLECTIVE, ANTI GLARE	DUAL	WIDE			
5	FSTN	REFLECTIVE	SINGLE	NORMAL			
6	FSTN	REFLECTIVE	DUAL	WIDE			
9	FSTN	TRANSMISSIVE, ANTI GLARE	SINGLE	NORMAL			
Α	FSTN	TRANSMISSIVE, ANTI GLARE	DUAL	WIDE			
С	FSTN	TRANSMISSIVE	SINGLE	NORMAL			
K	FSTN	TRANSMISSIVE	DUAL	WIDE			
М	FSTN	TRANSFLECTIVE, ANTI GLARE	SINGLE	NORMAL			
Q	FSTN	TRANSFLECTIVE, ANTI GLARE	DUAL	WIDE			
Υ	FSTN	TRANSFLECTIVE	SINGLE	NORMAL			
Z	FSTN	TRANSFLECTIVE	DUAL	WIDE			

Back Light/ Viewing Angle (*2)

OPTION	B/L COLOR	VIEWING DIRECTION	DISPLAY TYPE
0	NO BACKLIGHTING	6 O'CLOCK	POSITIVE
1	WHITE	6 O'CLOCK	POSITIVE
2	CCFL	6 O'CLOCK	POSITIVE
3	YELLOW (LED)	6 O'CLOCK	POSITIVE
4	BLUE-GREEN	6 O'CLOCK	POSITIVE
5	ORANGE	6 O'CLOCK	POSITIVE
6	BLUE	6 O'CLOCK	POSITIVE
7	RED	6 O'CLOCK	POSITIVE
9	NO BACKLIGHTING	12 O'CLOCK	POSITIVE
Α	WHITE	12 O'CLOCK	POSITIVE
В	CCFL	12 O'CLOCK	POSITIVE
С	YELLOW (LED)	12 O'CLOCK	POSITIVE
D	BLUE-GREEN	12 O'CLOCK	POSITIVE
E	ORANGE	12 O'CLOCK	POSITIVE
F	BLUE	12 O'CLOCK	POSITIVE
G	RED	12 O'CLOCK	POSITIVE
Н	WHITE	6 O'CLOCK	NEGATIVE
J	CCFL	6 O'CLOCK	NEGATIVE
K	YELLOW (LED)	6 O'CLOCK	NEGATIVE
L	BLUE-GREEN	6 O'CLOCK	NEGATIVE
М	ORANGE	6 O'CLOCK	NEGATIVE
N	BLUE	6 O'CLOCK	NEGATIVE
Р	RED	6 O'CLOCK	NEGATIVE
Q	WHITE	12 O'CLOCK	NEGATIVE
R	CCFL	12 O'CLOCK	NEGATIVE
S	YELLOW (LED)	12 O'CLOCK	NEGATIVE
T	BLUE-GREEN	12 O'CLOCK	NEGATIVE
U	ORANGE	12 O'CLOCK	NEGATIVE
V	BLUE	12 O'CLOCK	NEGATIVE
W	RED	12 O'CLOCK	NEGATIVE