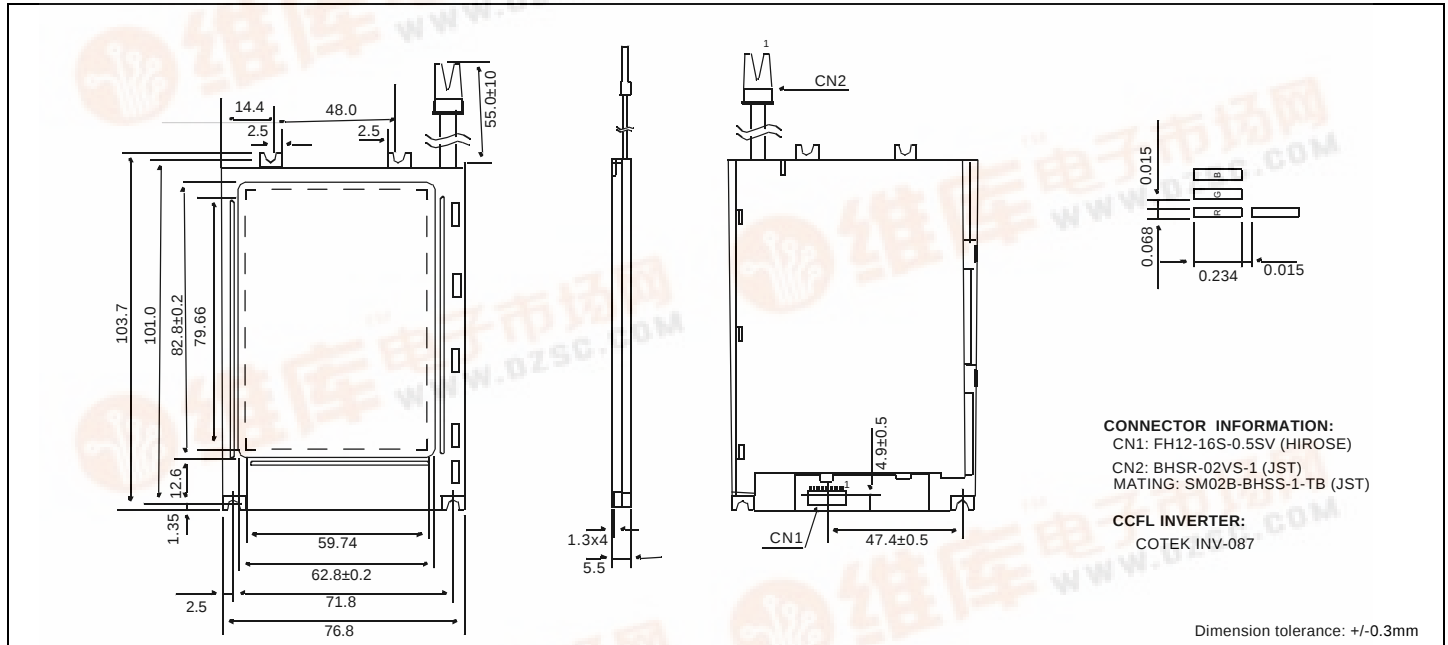


HDM 3224C-S-LP

Dimensional Drawing

3.9" 320 X 240 Color Graphic, Super Low Power, Thin w/CCFL Backlight



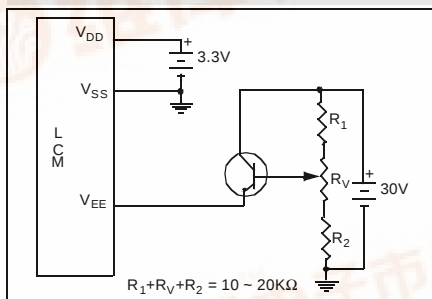
Features

Backlight..... CCFL
 Options.....Color RGB
 Extended Temperature
 Touch Screen
 Built-in Controller.....None

Physical Data

Module Size.....76.8W x 103.7H x 5.5T mm
 Viewing Area Size.....62.8W x 82.8H mm
 Dot Pitch.....0.249W x 0.083H mm
 Dot Size.....0.234W x 0.068H mm
 Weight.....65g

Power Supply

Electrical Characteristics (V_{DD}=3.3±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V _{IH}	-	0.8 V _{DD}	-	V _{DD}	V
INPUT LOW VOLTAGE	V _{IL}	-	0	-	0.2 V _{DD}	V
SUPPLY VOLTAGE	V _{DD}	-	3.0	3.3	3.6	V
DRIVE METHOD	V _L	V _{DD} = 3.3V	23.3	23.6	23.9	V
1/240 DUTY						

Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V _{DD} -V _{SS}	-0.3	7.0	V
SUPPLY VOLTAGE FOR LCD	V _{EE}	0	30.0	V
INPUT VOLTAGE	V _{IN}	-0.3	V _{DD} +0.3	V
OPERATING TEMPERATURE	T _{OP}	-10	50	°C
STORAGE TEMPERATURE	T _{STG}	-20	70	°C

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
DATA CONNECTOR			
1	D7	H/L	Data Bus
2	D6	H/L	
3	D5	H/L	
4	D4	H/L	
5	D3	H/L	
6	D2	H/L	
7	D1	H/L	
8	D0	H/L	
9	V _{SS}	0V	Ground
10	V _{DD}	3.3V	Power supply for logic
11	DISPOFF	H/L	H= On, L= Off
12	CP	H/L	Data shift
13	LOAD	H/L	Data Latch
14	FRAME	H	First Line Marker
15	V _{SS}	0V	Ground
16	V _{EE}	-	Operating voltage for LC
CCFL CONNECTOR			
1	V _{CFL}	-	Power supply for CCFL
2	GND	-	Ground