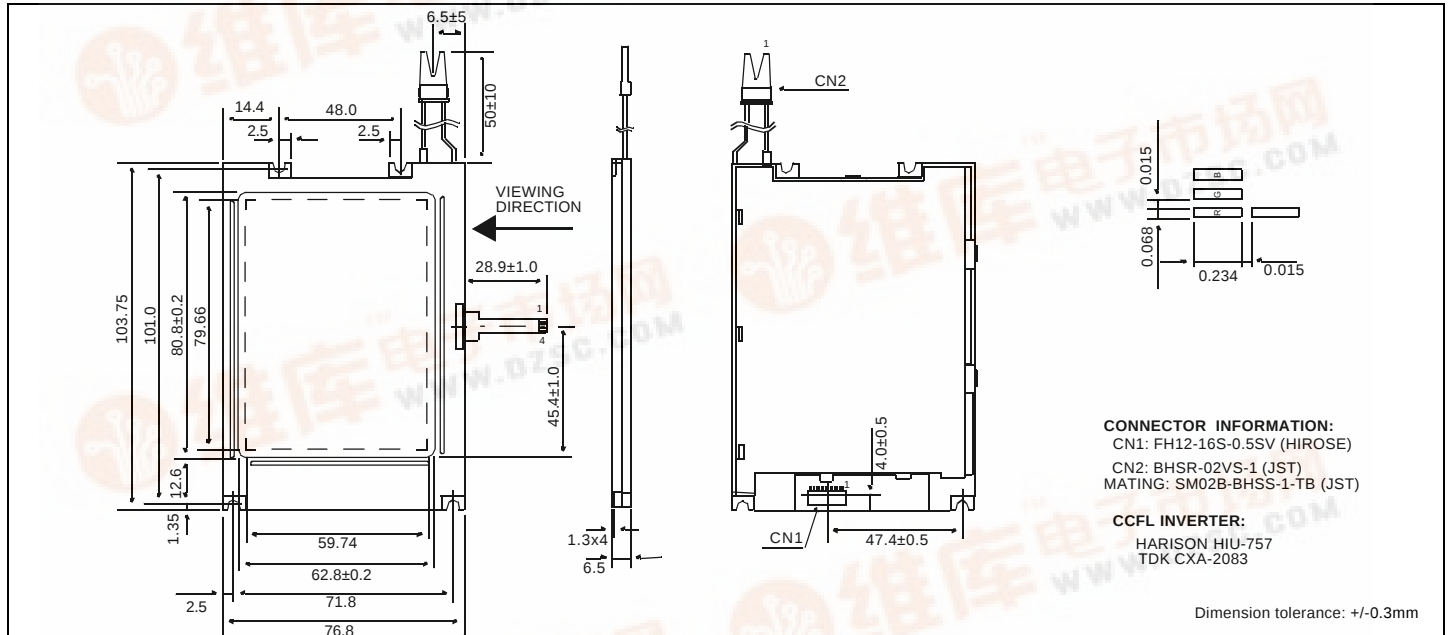


HDM 3224TSC-S-L

Dimensional Drawing

320 X 240 Dots Color Graphics, Landscape, Small Size w/CCFL Backlight



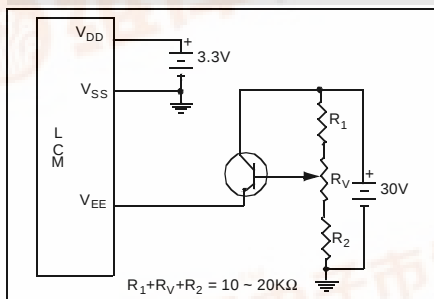
Features

Backlight.....CCFL
 Options.....Color RGB
 Normal/Extended Temperature
 Bottom Viewing
 Built-in Controller.....None

Physical Data

Module Size.....76.8W x 103.7H x 7.9T 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 (VDD=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	$V_{DD} = 5.0V$	23.7	24.0	24.3	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	7.0	V
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	60	°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
TOUCH SCREEN CONNECTOR			
1	Y2	TOP	
2	X2	RIGHT	
3	Y1	BOTTOM	
4	X1	LEFT	