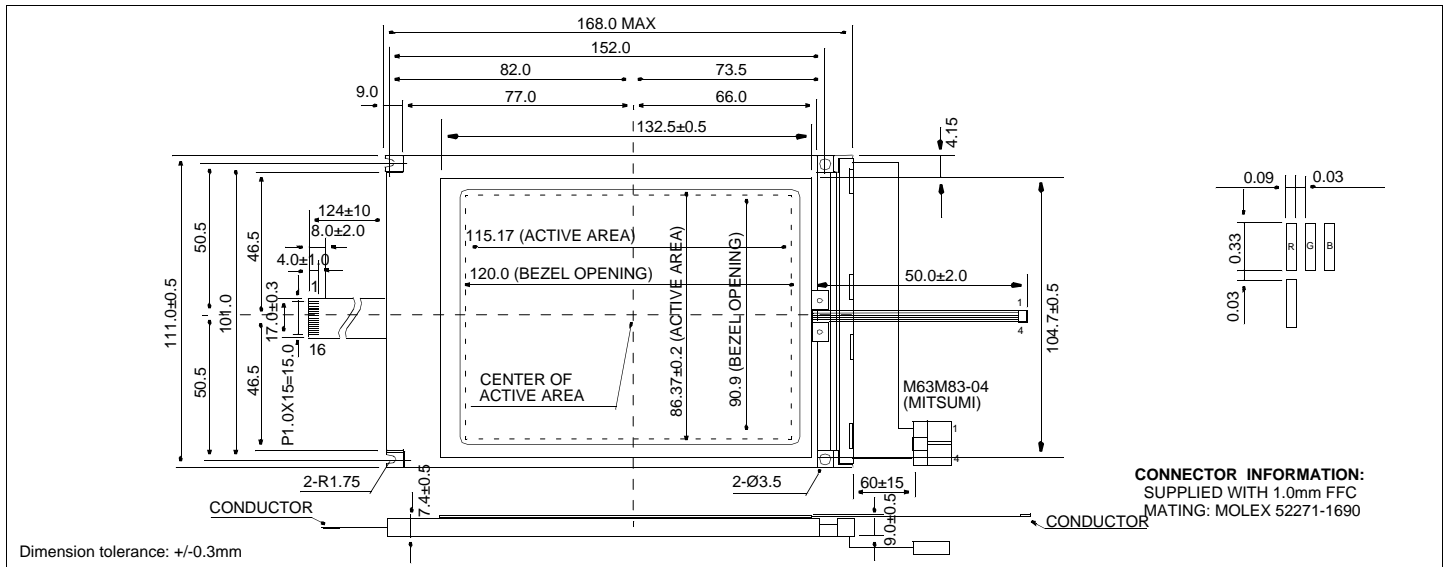


HDM 3224ATS-C

Dimensional Drawing

320 X 240 Dots Color Graphic Touch Screen CCFL Backlight



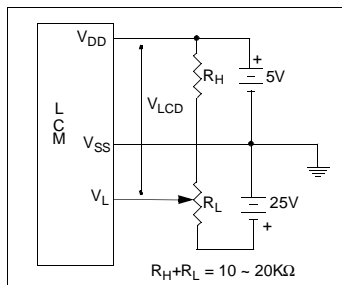
Features

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

Physical Data

- Module Size.....168.0W x 111.0H x 9.0T mm
- Viewing Area Size.....120.0W x 90.0H mm
- Dot Pitch.....0.36W x 0.36H mm
- Dot Size.....0.09W x 0.33H mm
- Weight.....280g

Power Supply



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	42.0	V
INPUT VOLTAGE	V _{IN}	-0.3	7.0	V
OPERATING TEMPERATURE	T _{OP}	0	50	°C
STORAGE TEMPERATURE	T _{STG}	-20	70	°C

Pin Connections

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

Electrical Characteristics (V_{DD}=5.0±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}	-	4.5	5.0	5.5	V
	V _L	-	23.3	23.5	23.6	V
DRIVE METHOD	1/240 DUTY					