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MCOT128128RV-YM	128 x 128	Yellow	OLED Module

Specification	
Version: 1	Date: 16/05/2017

Revision	
0 29/06/2016	First release

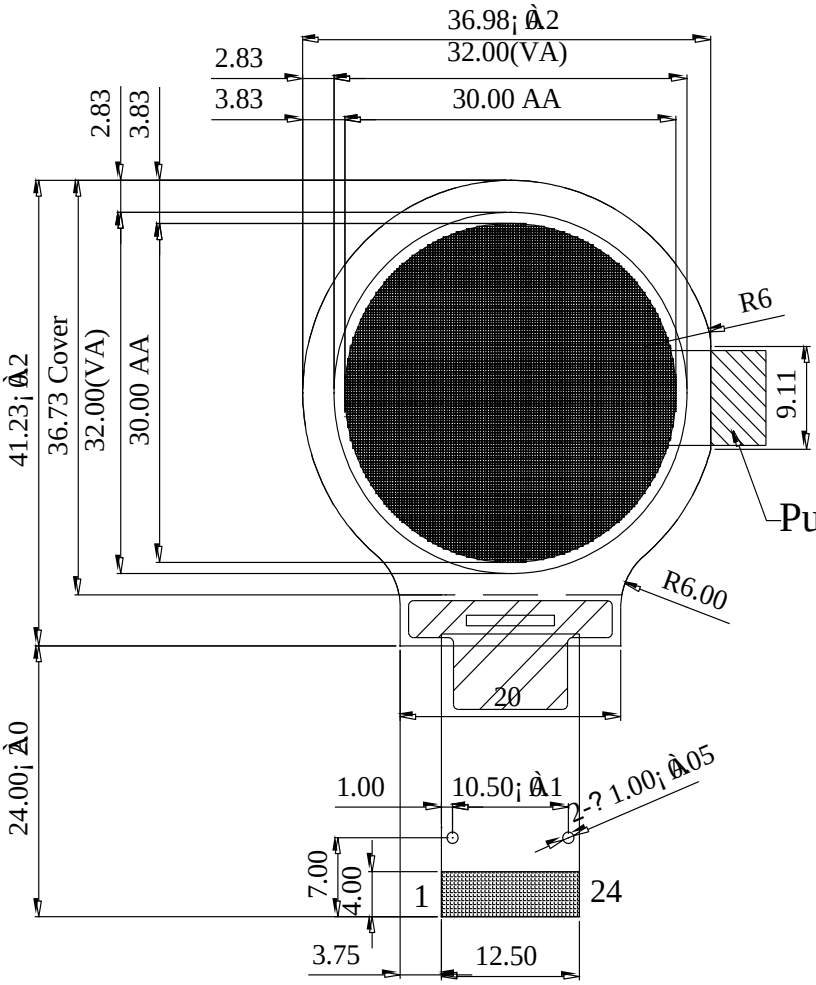
Display Features			
Resolution	128 x 128		
Appearance	Yellow on Black		
Logic Voltage	3V		
Interface	Parallel / SPI / I2C		
Module Size	36.98 x 41.23 x 2.05 mm		
Operating Temperature	-40°C ~ +80°C	Box Quantity	Weight / Display
Construction	TAB	---	---

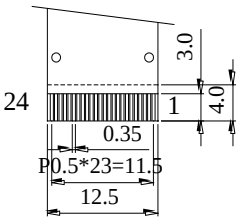
RoHS compliant

Display Accessories	
Part Number	**Description**

Optional Variants	
Appearance	**Voltage**
Blue on Black White on Black	

Mechanical Specifications					
Module Size	36.98 x 41.23 x 2.05 (With Backlight)				W x H x D mm
Viewing Area	32.00 x 32.00	W x H mm	Hole-to-Hole	---	W x H mm
Dot Size	0.210 x 0.210	W x H mm	Dot Pitch	0.235 x 0.235	W x H mm





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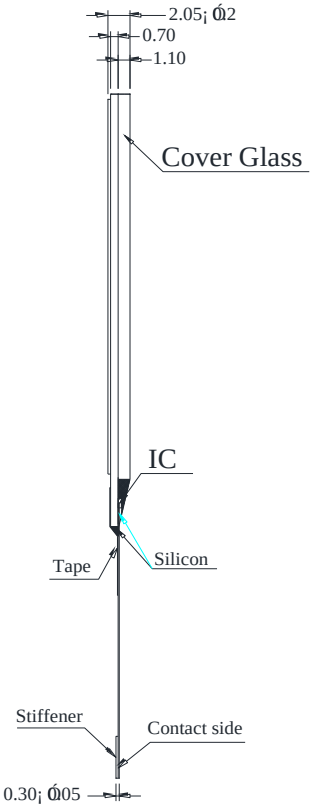

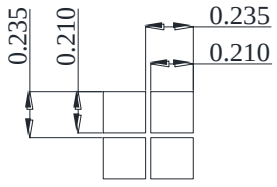

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The non-specified tolerance of dimension is ± 0.3mm.

MCOT128128RV-YM	128 x 128	Yellow	OLED Module
Specification			
Version: 1		Date: 16/05/2017	
Revision			

Pin layout			
Pin	**Symbol**	**Description**	**Remarks**
1	VSS	Ground. Connect to external ground.	
2	VCC	Power Supply for driving voltage. Positive power voltage supply pin.	
3	VCOMH	COM signal deselected voltage level. Capacitor between here and VSS.	
4	VCI	Low Voltage power supply. Should match with MCU interface voltage level and must connect to external source. Must always be ≥ VDD.	
5	VDD	Power Supply pin for core logic operation.	
6	BS1	MCU bus interface selection pins. Select appropriate logic setting, as described below: (Note: "0" is connected to VSS and "1" is connected to VCI) I2C = BS1: 1 BS2: 0 4-wire SPI = BS1: 0 BS2: 0 8-bit 68XX = BS1: 0 BS2: 1 8-bit 80XX = BS1: 1 BS2: 1	
7	BS2		
8	VSS	Ground Pin, must connect to external ground.	
9	IREF	Segment output current reference pin.	
10	CS#	Chip Select Input connecting to MCU. Chip is enabled for MCU communication when CS# is pulled Low.	
11	RES#	Reset Signal Input. Initialisation is executed when pulled Low. Keep pulled High during normal operation.	
12	D/C	Data / Command control pin connect to MCU. High= Data at D(7:0) interpreted as data. Low= Data at D(7:0) transferred to command register. I2C mode = SA0 for slave address selection. 3-Wire SPI = Connect to VSS	
13	W/R#	Read / Write input pin, connecting to MCU interface. 6800 Mode= R/W (R/W#) selection input, read mode carried out when pulled High, write mode when Low. 8080 Mode= WR (W/R#) input, data write initiated when pin is pulled Low and chip is selected.	
14	RD#	MCU Interface Input. 6800 Mode= Enable (E) signal pin, Read/Write initiated when pin is pulled High and chip is selected. 8080 Mode= Read (RD#) signal pin, read operation initiated when pin is pulled Low and chip is selected. I2C or SPI selected = Connect to VSS.	
15	D0	Bi-directional data bus connecting to MCU data bus. Unused pins to tie low. SPI Mode= D0 will be Serial Clock input (SCLK). D1 will be the Serial Data input (SDIN) and D2 should be kept NC. I2C Mode= D2 and D1 should be tied together and serve as SDAout, SDAin in application and D0 is Serial Clock input (SCL).	
16	D1		
17	D2		
18	D3		
19	D4		
20	D5		
21	D6		
22	D7		
23	VCC	Power Supply for panel driving voltage. Supplied externally.	
24	VSS	Ground.	

Absolute Maximums Ratings

Item	Symbol	Minimum	Typical	Maximum	Unit
Supply Voltage for Display	VCC	-0.50	---	19.00	V
Supply Voltage for Logic	VDD	-0.50	---	2.75	V
Supply Voltage for Operation	VCI	-0.30	---	4.00	V
Operating Temperature	TOP	-40	---	80	°C
Storage Temperature	TSTG	-40	---	80	°C

Electronic Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Input High Voltage	VIH	---	0.80	---	VDD	V
Input Low Voltage	VIL	---	GND	---	0.20	V
Output High Voltage	VOH	---	0.90	---	VDD	V
Output Low Voltage	VOL	---	GND	---	0.10	V
Supply Voltage for Logic	VDD	---	2.80	3.00	3.30	V
Supply Voltage for Display	VCC	---	14.00	14.50	15.00	V
50% Checkboard Operating Current.	IDD	VDD=14.5V	23.00	24.00	26.00	mA

OLED Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Viewing Angle	(V)θ	---	160	---	---	Deg
	(H)φ	---	160	---	---	Deg
Contrast Ratio	CR	Dark	2000:1	---	---	---
Response Time	T Rise	---	---	10	---	µs
	T Fall	---	---	10	---	µs
Display with 50% Checkboard Brightness			60	80	---	cd/m^2
CIEx(Blue)		(CIE1931)	0.45	0.47	0.49	---
CIEy(Blue)		(CIE1931)	0.48	0.50	0.52	---

OLED Life Time

Item	Conditions	Typical	Remark
Operating Life Time	Ta=25°C. Initial checkboard brightness, 50%.	50,000 Hours	---

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