

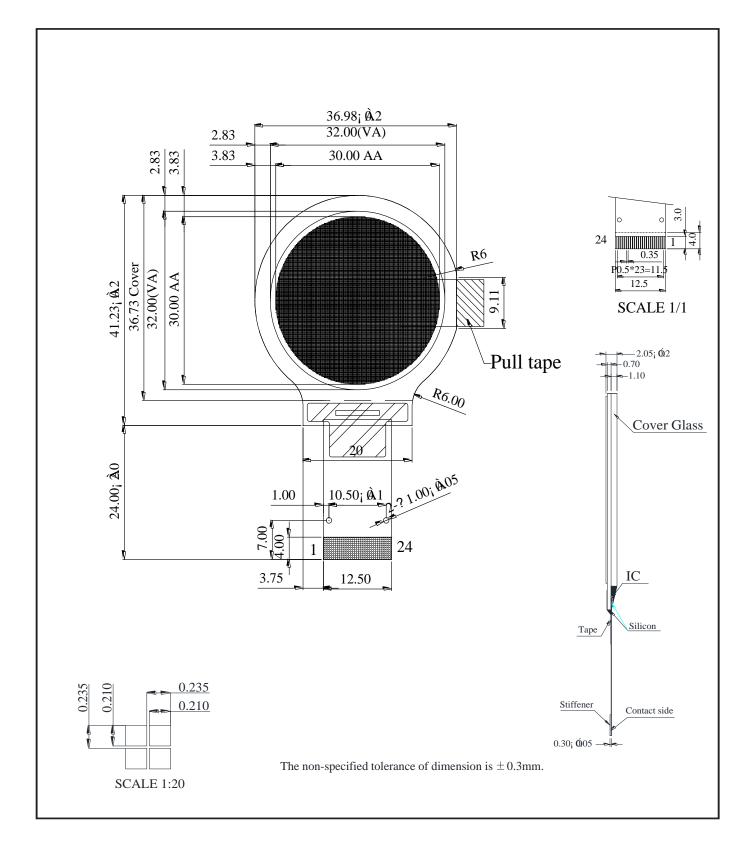
MCOT128128RV-BM	128 x 12	Blue	OLED Module			
Specification						
Version: 1		Date: 16/05/2017				
Revision						
0 2	29/06/2016 F	rst release				

Displa				
Resolution	128 x 128			
Appearance	Blue on Black	RoHS		
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			

Display Accessories					
Part Number	Description				

Optional Variants				
Voltage				

Mechanical Specifications						
Module Size	Module Size36.98 x 41.23 x 2.05 (With Backlight)W x H x D mm					
Viewing Area	32.00 x 32.00	32.00 x 32.00 W x H mm Hole-to-Hole				
Dot Size 0.210 x 0.210 W x H mm Dot Pitch 0.235 x 0.235 W x H mm						



MCOT128128RV-BM	128 x 128	Blue	OLED Module		
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		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)				
7	BS2	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				
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					
16	D1					
17	D2	Bi-directional data bus connecting to MCU data bus. Unused pins to tie low.				
18	D3	SPI Mode= D0 will be Serial Clock input (SCLK). D1 will be the				
19	D4	Serial Data input (SDIN) and D2 should be kept NC. I2C Mode= D2 and D1 should be tied together and serve as				
20	D5	SDAout, SDAin in application and D0 is Serial Clock input (SCL).				
21	D6					
22	D7					
23	VCC	Power Supply for panel driving voltage. Supplied externally.				
24	VSS	Ground.				

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At	Absolute Maximums Ratings						
ltem	Item Symbol Minimum Typical Maximum Ur						
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							
ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit	
	(V)θ		160			Deg	
Viewing Angle	(H)φ		160			Deg	
Contrast Ratio	CR	Dark	2000:1				
	T Rise			10		μs	
Response Time	T Fall			10		μs	
Display with 50% Checkboard Brightness		60	80		cd/m <sup>2</sup>		
CIEx(Blue) (CIE1		(CIE1931)	0.12	0.16	0.20		
CIEy(Blu	e)	(CIE1931)	0.22	0.26	0.30		

OLED Life Time						
Item Conditions Typical Remark						
Operating Life Time	Ta=25°C. Initial checkboard brightness, 50%.	20,000 Hours				

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