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MCOT128064U1V-WM	128 x 64	White	OLED Module
Specification			
Version: 1		Date: 07/06/2017	
Revision			
0	27/04/2017	First release	

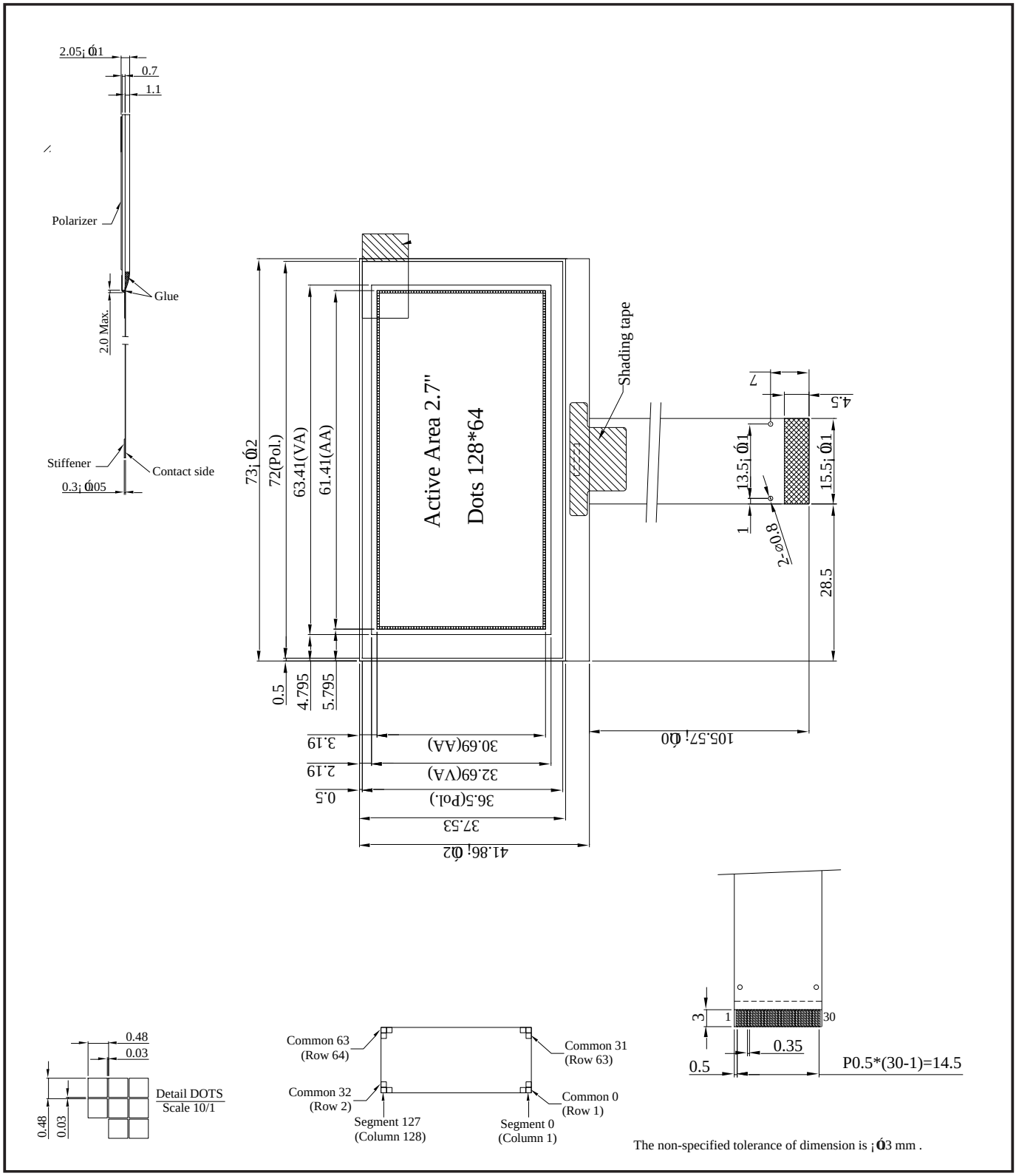
Display Features			
Resolution	128 x 64	RoHS compliant	
Appearance	White on Black		
Logic Voltage	3V		
Interface	Parallel / SPI / I2C		
Module Size	73.00 x 41.86 x 2.05		
Operating Temperature	-40°C ~ +80°C	Box Quantity	Weight / Display
Construction	TAB	---	---

* - For full design functionality, please use this specification in conjunction with the SSD1309 specification. (Provided Separately)

Display Accessories	
Part Number	**Description**
MPBV7	30 Way FFC to cable and wires. Driven by any driver board that can be wired to a 1mm pitch SHDR-30V-S-B receptacle.
MCIB-12	UC32 Breakout Board with SD card and LED back light driver. Used in conjunction with MPBV6.

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

Mechanical Specifications					
Module Size	73.00 x 41.86 x 2.05 (With Backlight)				W x H x D mm
Viewing Area	63.41 x 32.69	W x H mm	Hole-to-Hole	---	W x H mm
Dot Size	0.45 x 0.45	W x H mm	Dot Pitch	0.48 x 0.48	W x H mm



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Pin layout			
Pin	**Symbol**	**Description**	**Remarks**
1	NC	No Connection.	
2	VCC	Power supply driving voltage.	
3	VCOMH	COM signal deselected voltage level. Connect capacitor between here and VSS.	
4	IREF	Segment output current reference pin. Supplied externally.	
5-12	D0~D7	Bi-directional data bus connecting to the MCU data bus. Unused pins to tie Low. SPI Mode = D0 is Serial Clock input (SCLK) D1 will be Serial Data input (SDIN), D2 to be kept NC. I2C Mode = D2, D1 tied together serving as SDAout. SDAin in application and D0 is the Serial Clock input (SCL).	
13	E/RD#	MCU interface input. 6800 selected = Pin used as Enable (E) Signal. Read/write initiated when pin pulled High and chip selected. 8080 selected = Pin receives Read (RD#) Signal. Read initiated when pin pulled Low and chip selected. I2C / SPI selected = Connect to VSS.	
14	R/W#	Read / Write control input connecting to MCU interface. 6800 Mode = Pin used as Read/write (R/W#) selection input. Read mode when pin is pulled High; Write mode when pulled Low. 8080 Mode = Pin used as Write (WR#) input. Data Write initiated when pin pulled Low and chip selected. I2C / SPI selected = Connect to VSS.	
15	D/C#	Data / Command control pin connecting to MCU. Pulled High= D(7:0) interpreted as data. Pulled Low = D(7:0) transferred to a command register. I2C Mode = Pin acts as SA0 for slave address selection. 3-Wire SPI Mode = Connect to VSS	
16	RES#	Reset Signal Input. Initialisation executed when pulled Low. Keep pulled High during normal operation.	
17	CS#	Chip Select Input connecting to the MCU. Chip is enabled when CS# is pulled Low.	
18	NC	No Connection.	
19	BS2	MCU bus interface pins. Select appropriate logic settings: I2C: BS1= 1 BS2= 0 4-Wire SPI: BS1= 0 BS2= 0 6800 Parallel: BS1= 0 BS2= 1 8800 Parallel: BS1= 1 BS2= 1	
20	BS1		
21	VDD	Power Supply pin for core logic operation.	
22~28	NC	No Connection	
29	VSS	Ground	
30	NC	No Connection.	

Absolute Maximums Ratings

Item	Symbol	Minimum	Typical	Maximum	Unit
Supply Voltage for Display	VI	0.00	---	15.00	V
Supply Voltage for Logic	V0	-0.30	---	4.00	V
Operating Temperature	Vopr	-40	---	80	°C
Storage Temperature	Vstg	-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	---	12.50	13.00	13.50	V
50% Checkboard Operating Current.	IDD	VDD=5V	20	22	24	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(White)		(CIE1931)	0.26	0.28	0.30	---
CIEy(White)		(CIE1931)	0.30	0.32	0.34	---

OLED Life Time

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

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