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MCOT064032A1V	/-BI	64 x 32	64 x 32 Blue OLED Module			
	Specification					
Versi	on: 1		Date: 19/07/20	17		
	Revision					
1	1 12/07/2017 First release					

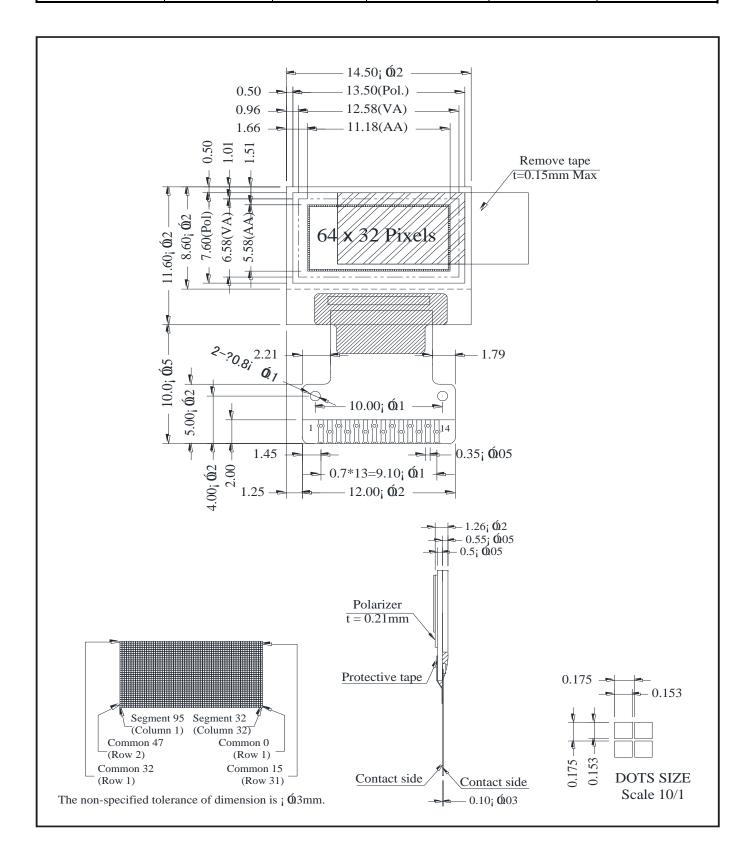
Display F		<u> </u>	
Resolution	64 x 32		
Appearance	Blue on Black		D'LIC
Logic Voltage	3V		ROHS compliant
Interface	I2C	\ \ \ c	ompliant
Module Size	14.50 x 11.60 x 1.26 mm		-
Operating Temperature	-40°C ~ +80°C	Box Quantity	Weight / Display
Construction	TAB		

* - For full design functionality, please use this specification in conjunction with the SSD1306BZ specification. (Provided Separately)

Display Accessories				
Part Number	Description			
MPBV4-ISS2	Direct solder interconnect board. supports 0.7, 0.8, 0.845 and 1mm pitch. Driven from any driver board that can wire 20 a 2mm pitch, 44 way DIL.			

Optional Variants				
Appearance	Voltage			
White on Black Yellow on Black				

Mechanical Specifications						
Module Size	14.50 x 11.60 x 1.26 (Without Backlight) W x H x D mm					
Viewing Area	12.58 x 6.58	12.58 x 6.58 W x H mm Hole-to-Hole				
Dot Size	0.153 x 0.153	W x H mm	Dot Pitch	0.175 x 0.175	W x H mm	



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Pin layout						
Pin	Symbol	Description	Remarks			
1	C2N					
2	C2P	Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the Flying Boost Capacitor. The charge-pump				
3	C1P	capacitors are required between the terminals. They must be floated when the converter is not used.				
4	C1N	Inoated when the converter is not used.				
5	VBAT	Power Supply for DC/DC Converter Circuit This is the power supply pin for the internal buffer of the DC/DC voltage converter. It must be connected to external source when the converter is used. It should be connected to VDD when the converter is not used.				
6	NC	No connection.				
7	VSS	Ground of Logic Circuit This is a ground pin. It acts as a reference for the logic pins. It must be connected to external ground.				
8	VDD	Power Supply for Logic This is a voltage supply pin. It must be connected to external source.				
9	RES#	Power Reset for Controller and Driver This pin is reset signal input. When the pin is low, initialization of the chip is executed.				
10	SCL	Host Data Input/Output Bus When serial mode selected, D1 is the serial data input SDIN				
11	SDA	and D0 is the serial clock input SCLK. When I2C mode is selected, D2 & D1 should be tied together and serve as SDAout & SDAin in application and D0 is the serial clock input SCL.				
12	IREF	Current Reference for Brightness Adjustment This pin is segment current reference pin. A resistor should be connected between this pin and VSS. Set the current lower than 12.5µA.				
13	VCOMH	Voltage Output High Level for COM Signal This pin is the input pin for the voltage output high level for COM signals. A capacitor should be connected between this pin and VSS.				
14	VCC	Power Supply for OEL Panel This is the most positive voltage supply pin of the chip. A stabilization capacitor should be connected between this pin and VSS when the converter is used. It must be connected to external source when the converter is not used.				

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Absolute Maximums Ratings						
Item Symbol Minimum Typical Maximum Ur						
Supply Voltage for Display	VCC	0.00		15.00	V	
Supply Voltage for Logic	VDD	-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		7.00	7.50	8.00	V
50% Checkboard Operating Current.	IDD	VDD=7.5V		5.00	20.00	mA

OLED Characteristics						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Viouing Anglo	(V)θ		160			Deg
Viewing Angle	(Η)φ		160			Deg
Contrast Ratio	CR	Dark	2000:1			
Doonanaa Tima	T Rise			10		μs
Response Time	T Fall			10		μs
Display with 50% Checkboard Brightness		140	160		cd/m ²	
CIEx(Blue)		(CIE1931)	0.12	0.16	0.20	
CIEy(Blu	ie)	(CIE1931)	0.22	0.26	0.30	

OLED Life Time					
Item Conditions Typical Remark					
Operating Life Time	Ta=25°C. Initial checkboard brightness, 50%, 100cd/m ²	20,000 Hours			

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