


MCOT048064A1V-WI	48 x 64	White	OLED Module
Specification			
Version: 1		Date: 19/07/2017	
Revision			
1	25/01/2017	First release	

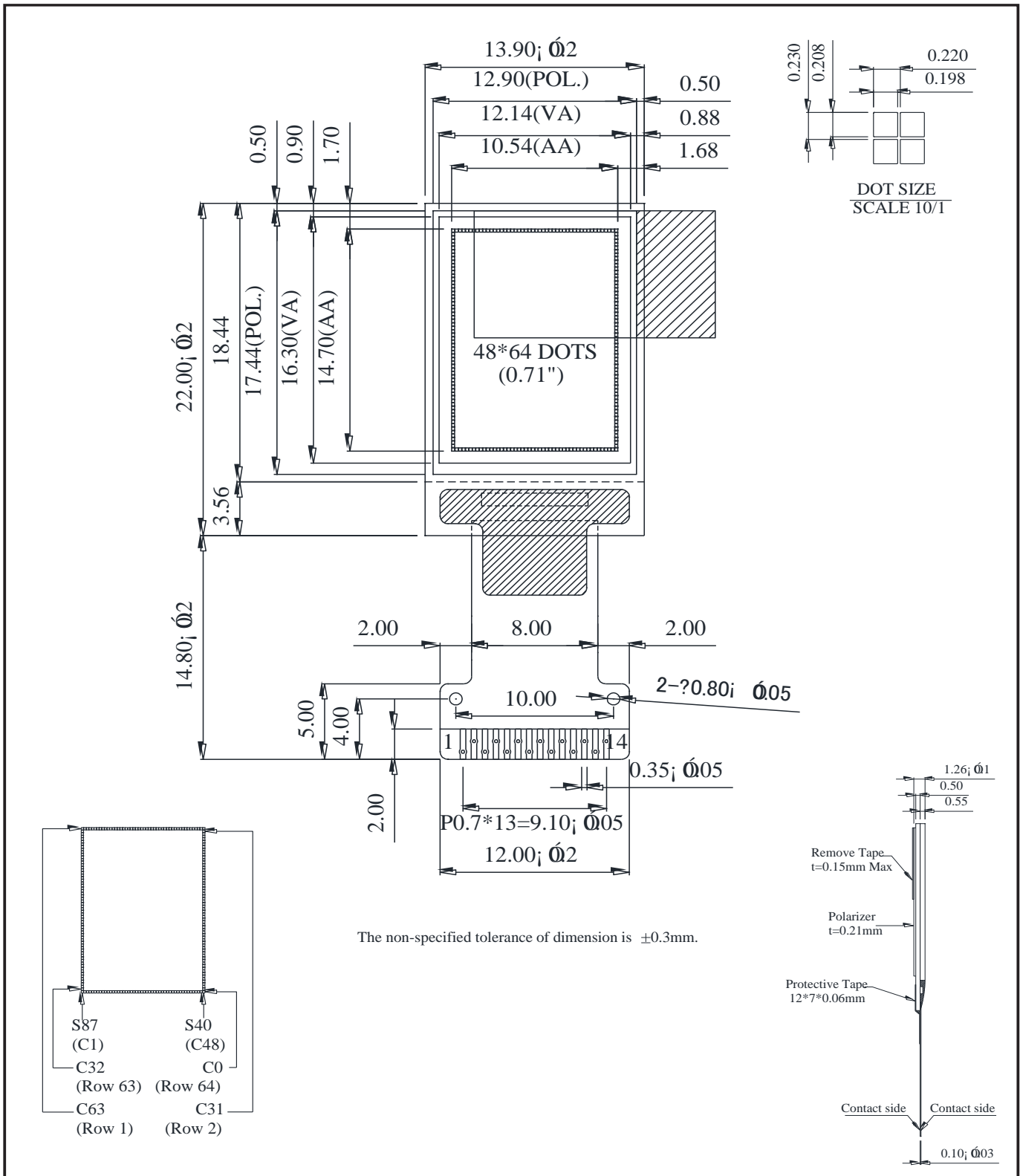
Display Features			Box Quantity	Weight / Display
Resolution	48 x 64			
Appearance	White on Black			
Logic Voltage	3V			
Interface	I2C			
Module Size	13.90 x 22.00 x 1.26 mm			
Operating Temperature	-40°C ~ +80°C	---	---	
Construction	TAB	---	---	

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
Yellow on Black	
Blue on Black	

Mechanical Specifications

Module Size	13.90 x 22.00 x 1.26 (Without Backlight)			W x H x D mm	
Viewing Area	12.14 x 16.30	W x H mm	Hole-to-Hole	---	W x H mm
Dot Size	0.198 x 0.208	W x H mm	Dot Pitch	0.220 x 0.230	W x H mm



MCOT048064A1V-WI	48 x 64	White	OLED Module
Version: 1		Date: 19/07/2017	
Revision			

Pin layout			
Pin	Symbol	Description	Remarks
1	C2N	Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the Flying Boost Capacitor. The charge-pump capacitors are required between the terminals. They must be floated when the converter is not used.	
2	C2P		
3	C1P		
4	C1N		
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 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.	
11	SDA		
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 12.5 μ A.	
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.	

MCOT048064A1V-WI	48 x 64	White	OLED Module
Specification			
Version: 1		Date: 19/07/2017	
Revision			

Absolute Maximums Ratings					
Item	Symbol	Minimum	Typical	Maximum	Unit
Supply Voltage for Display	VCC	0.00	---	15.00	V
Supply Voltage for Logic	VDD	0.00	---	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	7.80	V
50% Checkboard Operating Current.	ICC	VDD=7.5V	---	15.00	25.00	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	---	μ s
	T Fall	---	---	10	---	μ s
Display with 50% Checkboard Brightness			80	100	---	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	---

MCOT048064A1V-WI	48 x 64	White	OLED Module
Specification			
Version: 1		Date: 19/07/2017	
Revision			

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [midas](#) manufacturer:

Other Similar products are found below :

[MCT070LA12W1024600LML](#) [MCOT128064BY-WM](#) [MCOB21609AV-EWP](#) [MCIB-16-LVDS-CABLE](#) [MC42004A6W-SPTLY](#)
[MC22008B6W-SPR](#) [MC11605A6WR-SPTLY-V2](#) [MCOT048064A1V-YI](#) [MCT101E0CW1280800LMLIPS](#) [MCT104A0W1024768LML](#)
[MCT070Z0W800480LML](#) [MC41605A6W-FPTLA-V2](#) [MC42004A6WK-SPTLY-V2](#) [MCOT128064UA1V-WM](#)
[MCT101E0TW1280800LMLIPS](#) [MCT150B0W1024768LML](#) [MCT050HDMI-A-RTP](#) [MCT050HDMI-A-CTP](#)
[MCT070Z0TW1W800480LML](#) [MCT050ACA0CW800480LML](#) [MC42005A12W-VNMLY](#) [MC42005A12W-VNMLG](#)
[MCT052A6W480128LML](#) [MC21605A6WK-BNMLW-V2](#) [MC21605B6WD-BNMLW-V2](#) [MCOT256064A1A-BM](#) [MCOT22005A1V-EYM](#)
[MCT024L6W240320PML](#) [MC20805A12W-VNMLG](#) [MC22405A6WK-BNMLW-V2](#) [MC41605A6WK-FPTLW-V2](#) [MCT101HDMI-A-RTP](#)
[MCCOG21605D6W-FPTLWI](#) [MC21605A6WD-SPTLY-V2](#) [MC22005A6WK-BNMLW-V2](#) [MC24005AA6W9-BNMLW-V2](#) [MC11609A6W-](#)
[SPTLY-V2](#) [MC21605H6WR-SPTLY-V2](#) [MC128064A6W-BNMLW-V2](#) [MCOT064048A1V-YM](#) [MCOT128064BY-BM](#)
[MCCOG128064B12W-FPTLRGB](#) [MC11609A6W-SPR-V2](#) [MC21605H6WK-BNMLW-V2](#) [MCOT128064E1V-BM](#) [MCT070HDMI-B-RTP](#)
[MDT5000C](#) [MCOT128128AZ-RGBM](#) [MCCOG42005A6W-BNMLWI](#) [MC11605A12W-VNMLB](#)