


MCOB076016AV-YP	76 x 16	Yellow	OLED Module
Specification			
Version: 1	Date: 16/05/2017		
Revision			

Display Features			
Resolution	76 x 16		
Appearance	Yellow on Black		
Logic Voltage	5V		
Interface	Parallel		
Module Size	55.70 x 32.00 x 11.00		
Operating Temperature	-40°C ~ +80°C	Box Quantity	Weight / Display
Construction	COB	---	---

* - For full design functionality, please use this specification in conjunction with the MC0010 specification. (Provided Separately)

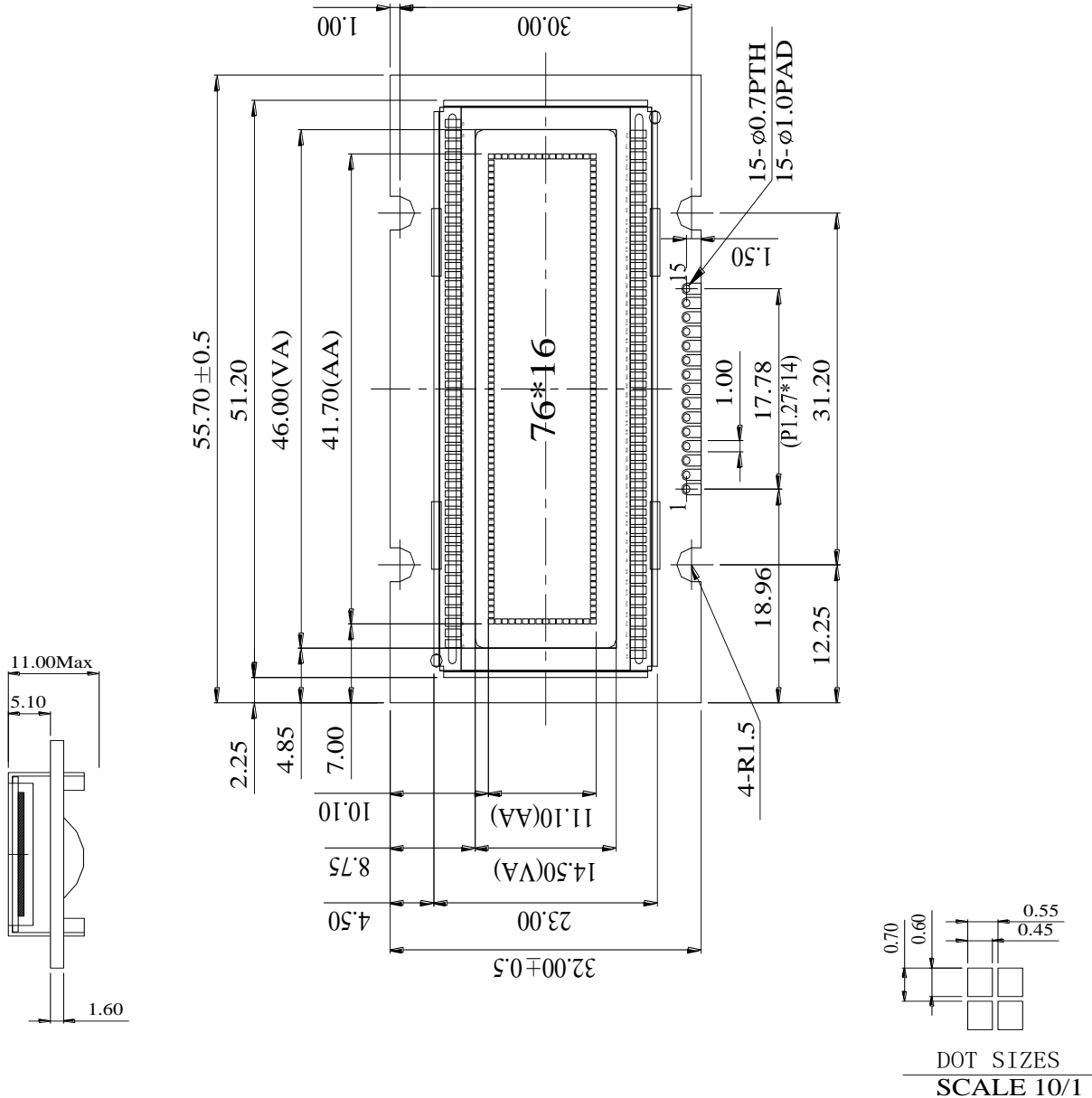
Display Accessories	
Part Number	Description

Optional Variants	
Appearance	Voltage

Mechanical Specifications

Module Size	55.70 x 32.00 x 11.00 (With Backlight)				W x H x D mm
Viewing Area	46.00 x 14.50	W x H mm	Hole-to-Hole	31.20 x 30.00	W x H mm
Dot Size	0.45 x 0.60	W x H mm	Dot Pitch	0.55 x 0.70	W x H mm

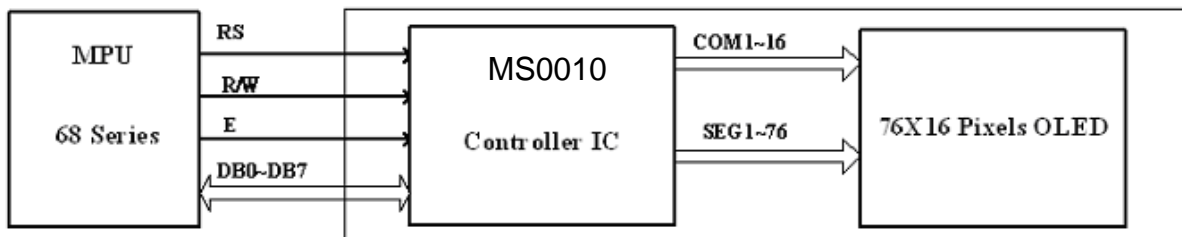
The non-specified tolerance of dimension is ± 0.3 mm .



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Pin layout

Pin	Symbol	Description	Remarks
1	VSS	Ground	
2	VDD	Supply Voltage for Logic	5V
3	NC	No Connection	
4	RS	H: Data L: Instruction Code	H/L
5	R/W	H: Read(MPU-->Module) L: Write(MPU-->Module)	H/L
6	E	Chip Enable Signal	H, H -->L
7	DB0	Data Bus Line	H/L
8	DB1	Data Bus Line	H/L
9	DB2	Data Bus Line	H/L
10	DB3	Data Bus Line	H/L
11	DB4	Data Bus Line	H/L
12	DB5	Data Bus Line	H/L
13	DB6	Data Bus Line	H/L
14	DB7	Data Bus Line	H/L
15	NC	No Connection	



Address Format	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0
GXA(Graphic X-axis Address	1	ADD6	ADD5	ADD4	ADD3	ADD2	ADD1	ADD0
GYA(Graphic Y-axis Address	0	1	0	0	0	0	0	CGA0

	1	2	3	4	.....	.....	73	74	75	76
CGA=0	GXA=10000000	GXA=10000000	GXA=10000001	GXA=10000001	.....	.....	GXA=11001000	GXA=11001001	GXA=11001010	GXA=11001011
	GYA=01000001	GYA=01000001	GYA=01000001	GYA=01000001	.....	.....	GYA=01000001	GYA=01000001	GYA=01000001	GYA=01000001
CGA=1	GXA=10000000	GXA=10000001	GXA=10000010	GXA=10000011	.....	.....	GXA=11001000	GXA=11001001	GXA=11001010	GXA=11001011
	GYA=01000001	GYA=01000001	GYA=01000001	GYA=01000001	GYA=01000001	GYA=01000001	GYA=01000001	GYA=01000001

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Absolute Maximums Ratings					
Item	Symbol	Minimum	Typical	Maximum	Unit
Input Voltage	VI	-0.30	---	VDD	V
Supply Voltage for Logic	V0	-0.30	---	5.30	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	---	0.90	---	VDD	V
Input Low Voltage	VIL	---	GND	---	0.10	V
Output High Voltage	VOH	IOH=-0.5mA	0.80	---	VDD	V
Output Low Voltage	VOL	IOL=0.5mA	GND	---	0.20	V
Supply Voltage for Logic	VDD~VSS	---	3.00	5.00	5.30	V
50% Checkboard Operating Current.	IDD	VDD=5V	32	38	45	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			100	120	---	cd/m ²
CIEx(Yellow)		(CIE1931)	0.45	0.47	0.49	---
CIEy(Yellow)		(CIE1931)	0.48	0.50	0.52	---

OLED Life Time			
Item	Conditions	Typical	Remark
Operating Life Time	Ta=25°C. Initial checkboard brightness, 50%.	100,000 Hours	---

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