

### 5 x 7 Dot Matrix

NO	PART NUMBER	diameter (mm)	IF	CHARACTER HEIGHT (in)	DIMENSIONS (mm)
1	FYM-7571A-BX-XX	φ1.8	10mA	0.70	12.70*17.80*6.40
2	FYM-7571C-DX-XX	φ1.8	10mA	0.70	12.70*17.80*6.40
3	FYM-10571A-BX-XX	φ3	10mA	1.00	22.75*31.80*8.50
4	FYM-10571A-BXX-XX	φ3	10mA	1.00	22.75*31.80*8.50
5	FYM-10571C-DXX-XX	φ3	10mA	1.00	22.75*31.80*8.50
6	FYM-10571E-FXX-XX	φ3	10mA	1.00	22.75*31.80*8.50
7	FYM-12571A-BX-XX	φ3	10mA	1.20	22.80*39.10*8.00
8	FYM-12571A-BXX-XX	φ3	10mA	1.20	22.80*39.10*8.00
9	FYM-12572A-BX-XX	φ3	10mA	1.20	22.75*31.80*8.50
10	FYM-12573A-BX-XX	4*4	10mA	1.20	25.00*42.00*8.00
11	FYM-20571A-BX-XX	φ5.0	10mA	2.00	37.80*53.70*8.40
12	FYM-20571A-BXX-XX	φ5.0	10mA	2.00	37.80*53.70*8.40
13	FYM-30571A-BX-XX	φ7.62	10mA	3.00	56.90*79.80*8.90
14	FYM-30571A-BXX-XX	φ7.62	10mA	3.00	56.90*79.80*8.90
15	FYM-40571A-BX-XX	φ10	10mA	4.00	76.00*106.50*13.00
16	FYM-40571A-BXX-XX	φ10	10mA	4.00	76.00*106.50*13.00
17	FYM-40571C-DX-XX	φ10	10mA	4.00	76.00*106.50*13.00



### 6 x 7 Dot Matrix (square dots)

NO	PART NUMBER	diameter(mm)	IF	CHARACTER HEIGHT (in)	DIMENSIONS (mm)
1	FYM-13671A-BX-XX	2*2.5	10mA	1.30	23.80*34.00*6.80



### 5 x 8 Dot Matrix

NO	PART NUMBER	diameter(mm)	IF	CHARACTER HEIGHT (in)	DIMENSIONS (mm)
1	FYM-14581A-BX-XX	φ3.7	10mA	1.40	23.40*37.40*7.20
2	FYM-23581A-BX-XX	φ5.0	10mA	2.30	37.80*60.60*8.80
3	FYM-23581A-BXX-XX	φ5.0	10mA	2.30	37.80*60.60*8.80
4	FYM-23581C-DX-XX	φ5.0	10mA	2.30	37.80*60.60*8.80
5	FYM-23581C-DXX-XX	φ5.0	10mA	2.30	37.80*60.60*8.80
6	FYM-34581A-BX-XX	φ5.0	10mA	3.40	56.80*90.70*9.20
7	FYM-34581A-BXX-XX	φ5.0	10mA	3.40	56.80*90.70*9.20
8	FYM-46581A-BXX-XX	φ10.0	10mA	4.60	76.00*121.50*13.00
9	FYM-46581A-BXX-XX	φ10.0	10mA	4.60	76.00*121.50*13.00



### 8 x 8 Dot Matrix

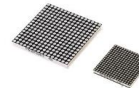
NO	PART NUMBER	diameter(mm)	IF	CHARACTER HEIGHT (in)	DIMENSIONS (mm)
1	FYM-7881A-BX-XX	φ1.8	10mA	0.70	20.20*20.20*5.90
2	FYM-7881C-DX-XX	φ1.8	10mA	0.70	20.20*20.20*5.90
3	FYM-12881A-BX-XX	φ3	10mA	1.20	32.00*32.00*8.00
4	FYM-12881A-BXX-XX	φ3	10mA	1.20	32.00*32.00*8.00
5	FYM-12881C-DX-XX	φ3	10mA	1.20	32.00*32.00*8.00
6	FYM-12881C-DXX-XX	φ3	10mA	1.20	32.00*32.00*8.00
7	FYM-12881E-FXX-XX	φ3	10mA	1.20	32.00*32.00*8.00
8	FYM-12881G-HXX-XX	φ3	10mA	1.20	32.00*32.00*8.00
9	FYM-12882A-BX-XX	φ3	10mA	1.20	32.00*32.00*10.50



10	FYM-12882A-BXX-XX	φ3	10mA	1.20	32.00*32.00*10.50
11	FYM-12882C-DX-XX	φ3	10mA	1.20	32.00*32.00*10.50
12	FYM-12882C-DXX-XX	φ3	10mA	1.20	32.00*32.00*10.50
13	FYM-12883A-BX-XX	φ3	10mA	1.20	31.70*31.70*8.00
14	FYM-12883A-BX-XXX	φ3	10mA	1.20	31.70*31.70*8.00
15	FYM-15881A-BX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
16	FYM-15881A-BXX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
17	FYM-15881C-DX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
18	FYM-15881C-DXX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
19	FYM-15882A-BX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
20	FYM-15882A-BXX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
21	FYM-15882C-DX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
22	FYM-15882C-DXX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
23	FYM-15883A-BX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
24	FYM-15883A-BXX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
25	FYM-15883C-DX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
26	FYM-15883C-DXX-XX	φ3.7	10mA	1.50	38.00*38.00*10.30
27	FYM-19881A-BX-XX	φ4.8	10mA	1.90	47.80*47.80*9.00
28	FYM-19881A-BXX-XX	φ4.8	10mA	1.90	47.80*47.80*9.00
29	FYM-19881A-BXXX-XX	φ4.8	10mA	1.90	47.80*47.80*9.00
30	FYM-19881C-DX-XX	φ4.8	10mA	1.90	47.80*47.80*9.00
31	FYM-19881C-DXX-XX	φ4.8	10mA	1.90	47.80*47.80*9.00
32	FYM-19881E-FX-XX	φ4.8	10mA	1.90	47.80*47.80*9.00
33	FYM-19881E-FXX-XX	φ4.8	10mA	1.90	47.80*47.80*9.00
34	FYM-20881A-BX-XX	φ5.0	10mA	2.00	50.70*50.70*9.30
35	FYM-20881A-BXX-XX	φ5.0	10mA	2.00	50.70*50.70*9.30
36	FYM-23881A-BX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
37	FYM-23881A-BXX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
38	FYM-23881A-BXXX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
39	FYM-23881C-DX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
40	FYM-23881C-DXX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
41	FYM-23881C-DXXX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
42	FYM-23881E-FX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
43	FYM-23881E-FXX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
44	FYM-23881G-HXX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20
45	FYM-23881I-JXX-XX	φ5.0	10mA	2.30	60.20*60.20*9.20

## 16 x 16 Dot Matrix

NO	PART NUMBER	diameter (mm)	IF	CHARACTER HEIGHT (in)	DIMENSIONS (mm)
1	FYM-15FF1A-BX-XX	φ1.8	10mA	1.50	37.50*4.00*3.80



## General Technical Information

### Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Value		Unit
			Min	Max	
Reverse Voltage	VR	IR=30	5	—	V
Forward Current	IF	—	—	30	mA
Power Dissipation	Pd	—	—	100	mW
Pulse Current	Ipeak	Duty=0.1mS,1KHz	—	150	mA
Operating Temperature	Topr	—	-40	+85	°C
Storage Temperature	Tstr	—	-40	+85	°C

## Electronic-Optical Characteristics

Emitting Color	Dice Material	Peak Wave Length( $\lambda$ P)	Spectral Line halfwidth ( $\Delta\lambda$ 1/2)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd	
				Typ	Max		
<b>Standard brightness</b>							
S	Hi Red	AlGaInP	660nm	20nm	2,0	2,5	10~20
D	Super Red	AlGaAs/DH	650nm	20nm	2,0	2,5	15~30
E	Orange	GaAsP	625nm	35nm	2,0	2,5	10~21
A	Amber	GaAsP	610nm	35nm	2,0	2,5	10~20
Y	Yellow	GaAsP	590nm	35nm	2,0	2,5	10~20
G	Yellow Green	AlGaInP	570nm	10nm	2,0	2,5	10~20
B	Blue	InGaN	460nm	60nm	3,0	3,8	9~20(mw)
B	Blue	InGaN	470nm	60nm	3,0	3,8	9~20(mw)
W	White	InGaN/GaN	X=0.29,Y=0.30	CCT:9500K	3,0	3,8	60~120~180
<b>Ultra brightness</b>							
UHR	Ultra Hi Red	AlGaInP	640nm	20nm	2	2,5	20~50
UR	Ultra Red	AlGaInP	635nm	20nm	2	2,5	40~70
UE	Ultra Orange	AlGaInP	625nm	20nm	2	2,5	40~85
UA	Ultra Amber	AlGaInP	610nm	20nm	2	2,5	30~105
UY	Ultra Yellow	AlGaInP	590nm	20nm	2	2,5	30~135
UG	Ultra Yellow Green	AlGaInP	570nm	30nm	2	2,5	20~60
PG	Pure Green	InGaN	520nm	36nm	3	3,8	350~450
UB	Ultra Blue	InGaN/GaN	460nm	30nm	3	3,8	120~180
UB	Ultra Blue	InGaN/GaN	470nm	30nm	3	3,8	120~180
UW	Ultra White	InGaN/GaN	X=0.29,Y=0.30	CCT:9500K	3	3,8	280~600
Segment-to-Segment Luminous Intensity ratio(Iv-M) 1.5:1							

**For further information, data-sheets, and samples you are welcome to contact us**

**二、LED Dot Matrix**

FY M - 23 8 8 1 A UHR - 1 1 - XXX - XXXXXX  
 1 2 3 4 5 6 7 8 9 10 11 12

- 1.Brand: FORYARD
- 2.Mode: M-Dot Matrix ML-Lamp Dot Matrix
- 3.FYM、FYLM-Dot Matrix Height 7-0.7" 10-1.0" 23-2.3"
- 4.FYM、FYLM-Column
- 5.FYM、FYLM-Row
- 6.FYM、FYLM: Model Number:1-Mode 1、2-Mode 2 ----
- 7.Drive Mode: A、C、E----Common Cathode B、D、F----Common Anode Z----Common use
- 8.Color Code:

CODE	COLOR	λ p	MATERIAL	CODE	COLOR	λ p	MATERIAL
H	Red	700	GaP	UHR	Ultra Hi Red	640	AlGaInP
S	Hi Red	660	AlGaInP	UR	Ultra Red	635	AlGaInP
D	Super Red	650	AlGaAs,DH	UE	Ultra Orange	625	AlGaInP
E	Orange	625	GaAsP	UA	Ultra Amber	610	AlGaInP
A	Amber	610	GaAsP	UY	Ultra Yellow	590	AlGaInP
Y	Yellow	590	GaAsP	UG	Ultra Green	570	AlGaInP
G	Yellow Green	570	AlGaInP	PG	Ultra Pure Green	520	InGaN
B	Blue	460/470	InGaN	BG	Ultra Bluish Green	505	InGaN
W	White	/	InGaN	UB	Ultra Blue	460/470	InGaN/GaN
				UW	Ultra White	/	InGaN/GaN

- 9.Reflector Surface Color:  
 0:White Surface 1:Black Surface 2:Gray Surface 3:Red Surface 4:Blue Surface ----

- 10.Segment Epoxy Color:  
 0:Water Clear 1:White Diffused 2:Red Diffused 3:Green Diffused  
 4:Yellow Diffused 5:YAG Diffused 6:Blue Diffused

- 11.Special Code:  
 LXX:Pin Length B:Both Side Decimal Point N:No Decimal Point DW:Double Wire  
 M: Surface Patch BS:Black Sides Z:Pin Bent G:Hi Temperature Resistant Material  
 E:Isopropyl Alcohol Resistant Material (Regular products omitted)

12. Company Bom Code