FND-944XXX2BW Range   2.0" (50 mm) 4 x 4 Bi-Colour Dot Matrix Display
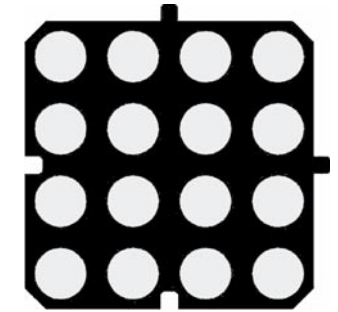
Features:

- High dot intensity
- Wide viewing angle
- Range of colours
- Black face colour
- White dot colour
- 2 dice per colour per dot

Available options:

- Alternative face colour: grey
- Cropped terminal pins
- Alternative emitting colour
- Low current version

Dot layout

Product not shown
actual size

Electro / Optical Characteristics - I_F = 20 mA T_a = 25° C

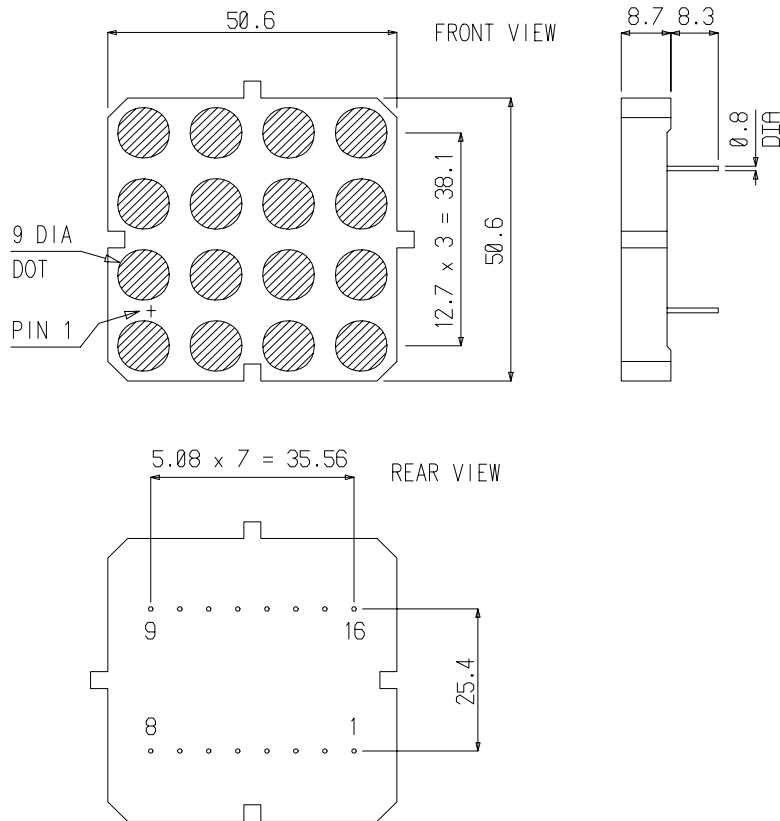| Part Number Column Cathode	Part Number Column Anode	Emitting Colours	Wavelength Peak λ_P	Forward Voltage V_F		Luminous Intensity I_V	
				typical	max	min	typical
FND-9441322BW	FND-9442322BW	HE Red	640	4.10	5.00	-	27
		Green	568	4.20	5.00	-	48
Units			nm	V		mcd / dot (matrix average)	

Maximum Ratings / Dot T_a = 25° C (Derate above 25° C)

Characteristic	Condition	Symbol	Rating	Units
Pulse Forward Current	0.1 duty cycle 0.1 ms pulse width	I_{FP}	100	mA
DC Forward Current		I_F	25	mA
Reverse Voltage	I_R = 10 µA	V_R	5	V
Operating Temperature		T_{opr}	- 25 to + 80	° C
Storage Temperature		T_{stg}	- 30 to + 85	° C
Lead soldering temperature	1.6 mm from body - maximum 3 seconds		260	° C

Package Outline

FRONT VIEW

50.6

9 DIA
DOT

PIN 1

12.7 x 3 = 38.1

50.6

8.7 8.3

Ø.8 DIA

REAR VIEW

5.08 x 7 = 35.56

9   16

8   1

25.4

Column Cathode

COLUMN 1   COLUMN 2   COLUMN 3   COLUMN 4

2   1   4   3   6   5   8   7

ROW 1
10
9

ROW 2
12
11

ROW 3
14
13

ROW 4
16
15

GREEN RED   GREEN RED   GREEN RED   GREEN RED

Column Anode

COLUMN 1   COLUMN 2   COLUMN 3   COLUMN 4

2   1   4   3   6   5   8   7

ROW 1
10
9

ROW 2
12
11

ROW 3
14
13

ROW 4
16
15

GREEN RED   GREEN RED   GREEN RED   GREEN RED
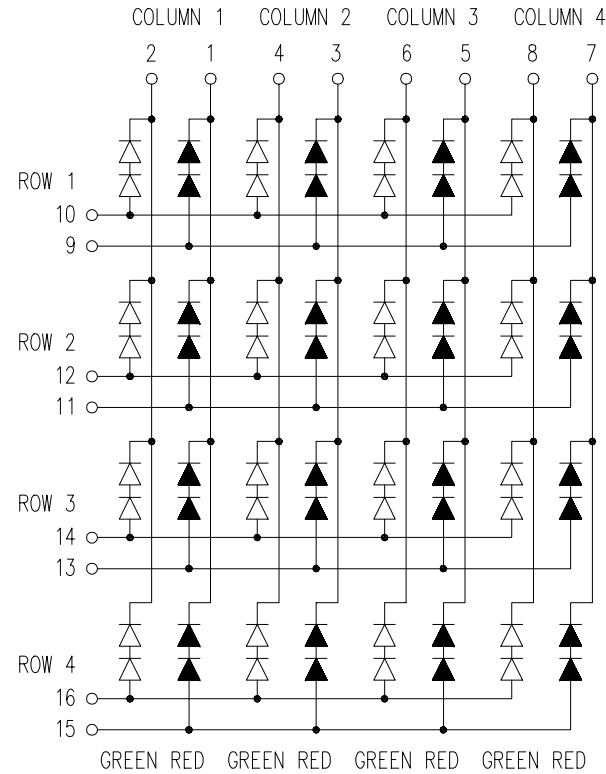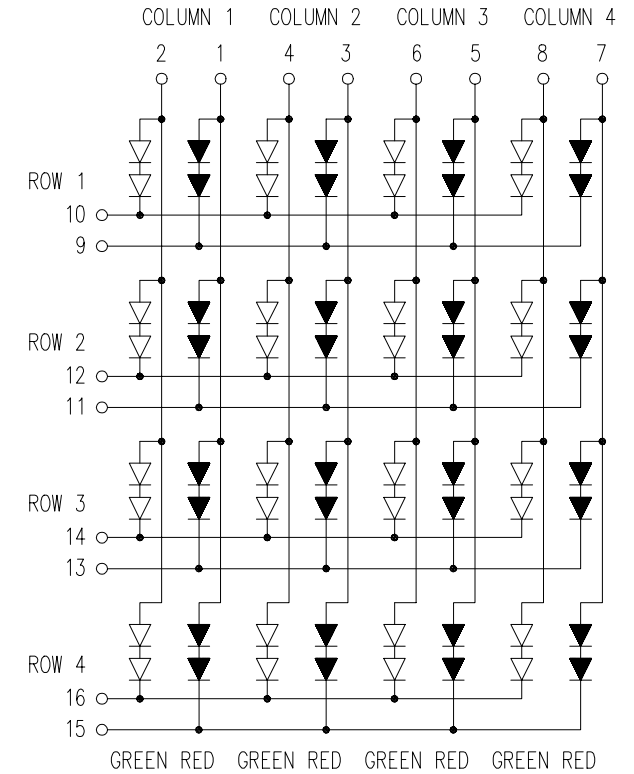
Tolerance ± 0.25 mm unless stated

Issue 02