

# Nexus 4 digit 7 segment PCB mounted multiplexed LED displays

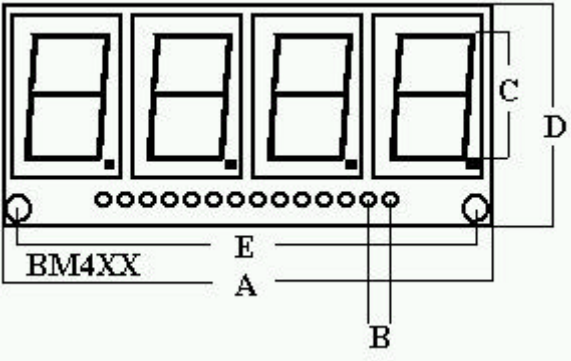
## MACHINES

**BM4-08                      BM4-14                      BM4-20                      BM4-25                      BM4-38**

### General Description

The BM4-XX series of displays are 4 digit seven segment multiplexed LED displays mounted on a printed circuit board and pinned out to a 0.1 inch pitch connector (2.0mm for BM4-08).

The devices are available in high efficiency red, green and yellow colour variants. Each of the standard displays has a right hand decimal point in each digit whereas the 0.3 inch variant features decimal points and colons for clock applications. LED sizes include 8mm (0.3 inch), 14mm (0.56inch), 20mm (0.8inch) and 25mm (1inch) display areas. LED current is typically 20mA average per segment.

	Dim (mm)	BM8	BM14	BM20	BM25	BM38
	A	36.0	51.0	72.0	102.0	121.5
	B	2.0	2.54	2.54	2.54	2.54
	C	8.0	14.0	20.0	25.0	38.0
	D	17.0	25.0	30.0	41.0	52.0
	E		45.0	66.0	96.0	115.0
	Depth	16.0	16.0	18.0	18.0	19.0

### Pinouts

Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>BM4-08</b>	Upd	B	Di3	Di2 Up Lw	F	Lp d	Di4	G	C	Dp1 Dp2 Dp3 Dp4	D	F	A	Di1
<b>BM4-14</b>	A	B	C	D	E	F	G	Dp	Di1	Di2	Di3	Di4		
<b>BM4-20</b>	A	B	C	D	E	F	G	Dp	Di1	Di2	Di3	Di4		
<b>BM4-25</b>	A	B	C	D	E	F	G	Dp	Di1	Di2	Di3	Di4		
<b>BM4-38</b>	A	B	C	D	E	F	G	Dp	Di1	Di2	Di3	Di4		

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## **Multiplexed LED displays.**

Common anode and common cathode variants share the same pinout.

Typ VF=1.7V@If=10mA      VR max=3V    Peak current/segment =70mA

LED brightness Min/Typ (mCd)

<b>Colour</b>	<b>0.3inch</b>	<b>0.56inch</b>	<b>0.8inch</b>	<b>1.0inch</b>
Green	0.6 / 1.65	0.9 / 2.4	1.0 / 2.55	1.3 / 3.3
HE Red	0.6 / 1.8	0.9 / 2.4	1.0 / 2.55	1.4 / 3.6
Yellow	0.6 / 1.6	0.9 / 2.4	1.0 / 2.55	1.3 / 3.2

<b>Size</b>	<b>Colour</b>	<b>CA/CC</b>	<b>Mnfr's code</b>
<b>0.3 inch</b>	Green	CA	BM4-08-AG
	HE red	CA	BM4-08-AR
	Yellow	CA	BM4-08-AY
	Green	CC	BM4-08-CG
	HE red	CC	BM4-08-CR
	Yellow	CC	BM4-08-CY
<b>0.56 inch</b>	Green	CA	BM4-14-AG
	HE red	CA	BM4-14-AR
	Yellow	CA	BM4-14-AY
	Green	CC	BM4-14-AG
	HE red	CC	BM4-14-AR
	Yellow	CC	BM4-14-AY
<b>0.8 inch</b>	Green	CA	BM4-20-AG
	HE red	CA	BM4-20-AR
	Yellow	CA	BM4-20-AY
	Green	CC	BM4-20-CG
	HE red	CC	BM4-20-CR
	Yellow	CC	BM4-20-CY
<b>1.0 inch</b>	Green	CA	BM4-25-AG
	HE red	CA	BM4-25-AR
	Yellow	CA	BM4-25-AY
	Green	CC	BM4-25-CG
	HE red	CC	BM4-25-CR
	Yellow	CC	BM4-25-CY
<b>1.5 inch</b>	Green	CA	BM4-38-AG
	HE red	CA	BM4-38-AR
	Yellow	CA	BM4-38-AY
	Green	CC	BM4-38-CG
	HE red	CC	BM4-38-CR
	Yellow	CC	BM4-38-CY