VCC

C3 C4 C5 C6 C7
1u 100n 100n 100n 100n

GND

LED Matrix

CONN_5
P4

1	LRow1	LRow1
2	LRow2	LRow2
3	LRow3	LRow3
4	LRow4	LRow4
5	LRow5	LRow5

P5
CONN_7X2

LCol1 LCol1   1   2 LCol8
LCol2 LCol2   3   4 LCol9
LCol3 LCol3   5   6 LCol10
LCol4 LCol4   7   8 LCol11
LCol5 LCol5   9   10 LCol12
LCol6 LCol6   11 12 LCol13
LCol7 LCol7   13 14 LCol14
LCol8
LCol9
LCol10 LCol10
LCol11 LCol11
LCol12 LCol12
LCol13 LCol13
LCol14 LCol14

LED matrix.sch

Keys matrix

CONN_5
P2

5	Row1	Row1
4	Row2	Row2
3	Row3	Row3
2	Row4	Row4
1	Row5	Row5

Col1 Col1
Col2 Col2
Col3 Col3
Col4 Col4
Col5 Col5
Col6 Col6
Col7 Col7

P3
CONN_7X2

Col1 1   2 Col8   Col8
Col2 3   4 Col9   Col9
Col3 5   6 Col10 Col10
Col4 7   8 Col11 Col11
Col5 9   10 Col12 Col12
Col6 11 12 Col13 Col13
Col7 13 14 Col14 Col14

CAPS_LED CAPS_LED

matrix.sch

GND GND VCC
VCC

P1
CONN_6

1
2
3
4
5
6

HOLE1   HOLE3   HOLE6
Mounting_Hole Mounting_Hole Mounting_Hole

HOLE2   HOLE5   HOLE4
Mounting_Hole Mounting_Hole Mounting_Hole

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Size: A4   Date: Rev:
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LED Matrix schematic — DB1 through DB65 LED matrix arranged in columns Col1–Col14 and rows LRow1–LRow5.