

**LED DOT MATRIX DISPLAY Series**

**KLS9-M LED DOT MATRIX DISPLAY Series**

**KLS9 - M - 23 8 8 1 A EG - 1 1 - XXX**  
 1 2 3 4 5 6 7 8 9 10 11

- 1. Brank : KLS ELECTRONIC
- 2. Digit Mode : M-Dot Matrix ML-La mp Dot Matrix
- 3. Mode Number:
- 4. Column Number:
- 5. Row Number:
- 6. Model Number:
- 7. Drive Mode: A. C. E. .... - Common Cathode B. D. F. .... - Common Anode Z-Universal
- 8. Color Code:

H: Red	GaP/GaP	700nm	UG: High Bright Green	AlGaInP	574nm
S: High Bright Red	GaAlAs/GaAs	SH 660nm	PG: Super Pure Green	AlGaInP	525nm
D: Super Bright Red	GaAlAs/GaAs	DH 660nm	BG: Super Bluish Green	AlGaInP	505nm
UR: Ultra Bright Red	GaAlAs/GaAlAs	DDH 660nm	B: Blue GaN/SiC		430nm
UHR: Ultra Bright Red	AlGaInP	640nm	UB: Super Bright Blue	InGaN/SiC	470nm
E: Orange	GaAsP/GaP	635nm	V: UV	InGaN/SiC	405nm
UE: High Bright Orange	AlGaInP	630nm	W: White		
Y: Yellow	GaAsP/GaP	585nm	EG: Orange+Green Bi-Color		
UY: High Bright Yellow	AlGaInP	590nm	SG: High Red+Green Bi-Color		
G: Green	GaP/GaP	568nm	RGB: Multicolor		

- 9. Reflector Surface Color: 0-White Surface 1-Black Surface 2-Gray Surface 3-Red Surface
- 10. Segment Epoxy Color: 0-Water Clear 1-White Diffused 2-Red Diffused  
3-Green Diffused 4-Yellow Diffused
- 11. Special Device: -Lxx: Pin Length -B: Both Side Decimal Point -N: No Decimal Point

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PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM	
<p><b>KLS9M-14581 Series</b></p>	<p><b>KLS9M-14581Ax</b></p>	<p><b>KLS9M-14581Bx</b></p>
<p><b>KLS9M-23581 Series</b></p>	<p><b>KLS9M-23581Ax</b></p>	<p><b>KLS9M-23581Bx</b></p>
<p><b>KLS9M-23581 Series</b></p>	<p><b>KLS9M-23581Cx</b></p>	<p><b>KLS9M-23581Dx</b></p>

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PACKAGE DIMENSION		INTERNAL CIRCUIT DIAGRAM	
<p><b>KLS9M-23581 Series</b></p> <p>COL. 1 2 3 4 5 ROW 1-8</p>		<p><b>KLS9M-23581AEG</b>      <b>KLS9M-23581BEG</b></p> <p>COL. 1 2 3 4 5      COL. 1 2 3 4 5</p> <p>PIN NO. 18 19 3 4 5 6 13 14 9 9      PIN NO. 18 19 3 4 5 6 13 14 9 9</p> <p>ROW PIN NO. 1 12      ROW PIN NO. 1 12</p> <p>2 20      2 20</p> <p>3 11      3 11</p> <p>4 17      4 17</p> <p>5 7      5 7</p> <p>6 1      6 1</p> <p>7 10      7 10</p> <p>8 2      8 2</p> <p>— = GREEN      — = GREEN — = ORANGE      — = ORANGE</p>	
<p><b>KLS9M-23581 Series</b></p> <p>COL. 1 2 3 4 5 ROW 1-8</p>		<p><b>KLS9M-23581CEG</b>      <b>KLS9M-23581DEG</b></p> <p>COL. 1 2 3 4 5      COL. 1 2 3 4 5</p> <p>PIN NO. 18 19 3 4 5 6 13 14 9 9      PIN NO. 18 19 3 4 5 6 13 14 9 9</p> <p>ROW PIN NO. 1 16      ROW PIN NO. 1 16</p> <p>2 15      2 15</p> <p>3 17      3 17</p> <p>4 14      4 14</p> <p>5 8      5 8</p> <p>6 5      6 5</p> <p>7 6      7 6</p> <p>8 9      8 9</p> <p>— = GREEN      — = GREEN — = ORANGE      — = ORANGE</p>	
<p><b>KLS9M-34581 Series</b></p> <p>COL. 1 2 3 4 5 ROW 1-8</p>		<p><b>KLS9M-34581Ax</b>      <b>KLS9M-34581Bx</b></p> <p>COL. 1 2 3 4 5      COL. 1 2 3 4 5</p> <p>PIN NO. 13 3 4 11 11 6      PIN NO. 13 3 4 11 11 6</p> <p>ROW PIN NO. 1 9      ROW PIN NO. 1 9</p> <p>2 14      2 14</p> <p>3 8      3 8</p> <p>4 12      4 12</p> <p>5 5      5 5</p> <p>6 1      6 1</p> <p>7 7      7 7</p> <p>8 2      8 2</p> <p>— = GREEN      — = GREEN — = ORANGE      — = ORANGE</p>	

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PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM	
<p><b>KLS9M-34581 Series</b></p>	<p><b>KLS9M-34581Axx</b></p>	<p><b>KLS9M-34581Bxx</b></p>
<p><b>KLS9M-46581 Series</b></p>	<p><b>KLS9M-46581Ax</b></p>	<p><b>KLS9M-46581Bx</b></p>
<p><b>KLS9M-46581 Series</b></p>	<p><b>KLS9M-46581Axx</b></p>	<p><b>KLS9M-46581Bxx</b></p>