

EPOXY MOLDED DOT MATRIX MODULE(Multi-Color) ■■■■■

MODEL	DIMENSION
<p>SMM 51616</p> <p>Dot Size : ϕ 4.8 No.of Dot: 16 X 16 Emitting Size : 96 X 96mm Color : Red,Green and Amber Current Dissipation : 1.8A(Max.)</p>	<p>Technical drawing of the SMM 51616 module. It includes three views: a top view showing a square dot matrix with dimensions 96.0 Max by 96.0 Max and a total width of 256-φ4.8; a side view showing a height of 23.7 and a depth of 72.0; and a front view showing an IN connector, a 5V power input, and an OUT connector, with a total width of 72.0 and 4-M3 mounting holes.</p>
<p>SMM 53216</p> <p>Dot Size : ϕ 4.8 No.of Dot: 16 X 32 Emitting Size : 96 X 192mm Color : Red,Green or Amber Current Dissipation : 2.6A(Max.)</p>	<p>Technical drawing of the SMM 53216 module. It includes three views: a top view showing a rectangular dot matrix with dimensions 192.0 Max by 96.0 Max and a total width of 512Dot-φ4.8; a side view showing a height of 23.7 and a depth of 72.0; and a front view showing an IN connector, a 5V power input, and an OUT connector, with a total width of 192.0 (split into two 84.0 segments) and 6-M3 mounting holes.</p>
<p>SMM 54816</p> <p>Dot Size : ϕ 4.8 No.of Dot: 16 X 48 Emitting Size : 96 X 288mm Color : Red,Green and Amber Current Dissipation : 4.5A(Max.)</p>	<p>Technical drawing of the SMM 54816 module. It includes three views: a top view showing a rectangular dot matrix with dimensions 288.0 Max by 96.0 Max and a total width of 768Dot-φ4.8; a side view showing a height of 23.7 and a depth of 72.0; and a front view showing an IN connector, a 5V power input, and an OUT connector, with a total width of 288.0 (split into two 132.0 segments) and 6-M3 mounting holes.</p>

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Electrical/Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Remark
Input Voltage	Vcc	4.85	5.00	5.15	V	
Clock Frequency	fCLK			7.0	MHz	
Driving Method		1/16 Duty Drive				Dynamic Drive
Luminous Intensity	Red	Iv	11		mcd	Per Dot
	Yellow Green		13			Per Dot
Peak Emission Wavelength	Red	λ_p	660		nm	
	Yellow Green		568			
Spectrum Radiation Bandwidth	Red	Δp	20		nm	
	Yellow Green		30			
Operating Temperature Range	Topr	-5 ~ +65			°C	
Storage Temperature Range	Tstg	-20 ~ +85			°C	

Pin Connection

Pin Arrangement	No	Name	Single Color	Multi-Color
	1	DATA	Data for RED, GREEN or AMBER signal	Data for RED signal
	2	DATA		Data for GREEN signal
	3	A0	Raw address control	Raw address control
	4	A1	It can be controlled 0000 to	It can be controlled 0000 to
	5	A2	1111 (in 16 x 16 module)	1111 (in 16 x 16 module)
	6	A3		
	7	ENABLE	Brightness control	Brightness control
	8	LATCH	Data latch control "H" Data input and display "L" Data input disable and display memorized data	Data latch control "H" Data input and display "L" Data input disable and display memorized data
	9	CLOCK	Clock signal for data input and display	Clock signal for data input and display
	10	GND	Ground	Ground

	"A" Type	Others
BLOCK DIAGRAM		
TIMING CHART		