

EPOXY MOLDED DOT MATRIX MODULE(Single Color) ■■■■■■

MODEL	DIMENSION
<p>SMM 23216A</p> <p>Dot Size : $\phi 2$ No. of Dot : 16 X 32 Emitting Size : 40 X 80mm Color : Red, Green or Amber Current Dissipation : 1.0A(Max.)</p>	
<p>SMM 24816A</p> <p>Dot Size : $\phi 2$ No. of Dot : 16 X 48 Emitting Size : 40 X 120mm Color : Red, Green or Amber Current Dissipation : 1.3A(Max.)</p>	
<p>SMM 26416A</p> <p>Dot Size : $\phi 2$ No. of Dot : 16 X 64 Emitting Size : 40 X 160mm Color : Red, Green or Amber Current Dissipation : 1.5A(Max.)</p>	
<p>SMM 28016A</p> <p>Dot Size : $\phi 2$ No. of Dot : 16 X 80 Emitting Size : 40 X 200mm Color : Red, Green or Amber Current Dissipation : 1.8A(Max.)</p>	
<p>SMM 28032A</p> <p>Dot Size : $\phi 2$ No. of Dot : 32 X 80 Emitting Size : 80 X 200mm Color : Red, Green or Amber Current Dissipation : 3.0A(Max.)</p>	

EPOXY MOLDED DOT MATRIX MODULE

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		