

CUSTOMER : \_\_\_\_\_

NO. : MKM-

EDIT :

DATE :

# SPECIFICATION FOR APPROVAL

PRODUCT : 2.52"(64.0mm) Dual-Color 16×16 Ø 3.2 Dot Matrix LED Display

MODEL NO. MDM-3169

APPROVAL			REVISION
CHK	CHK	APPD.	
REMARKS			



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# MIKWANG ELECTRONICS

# MDM-3169

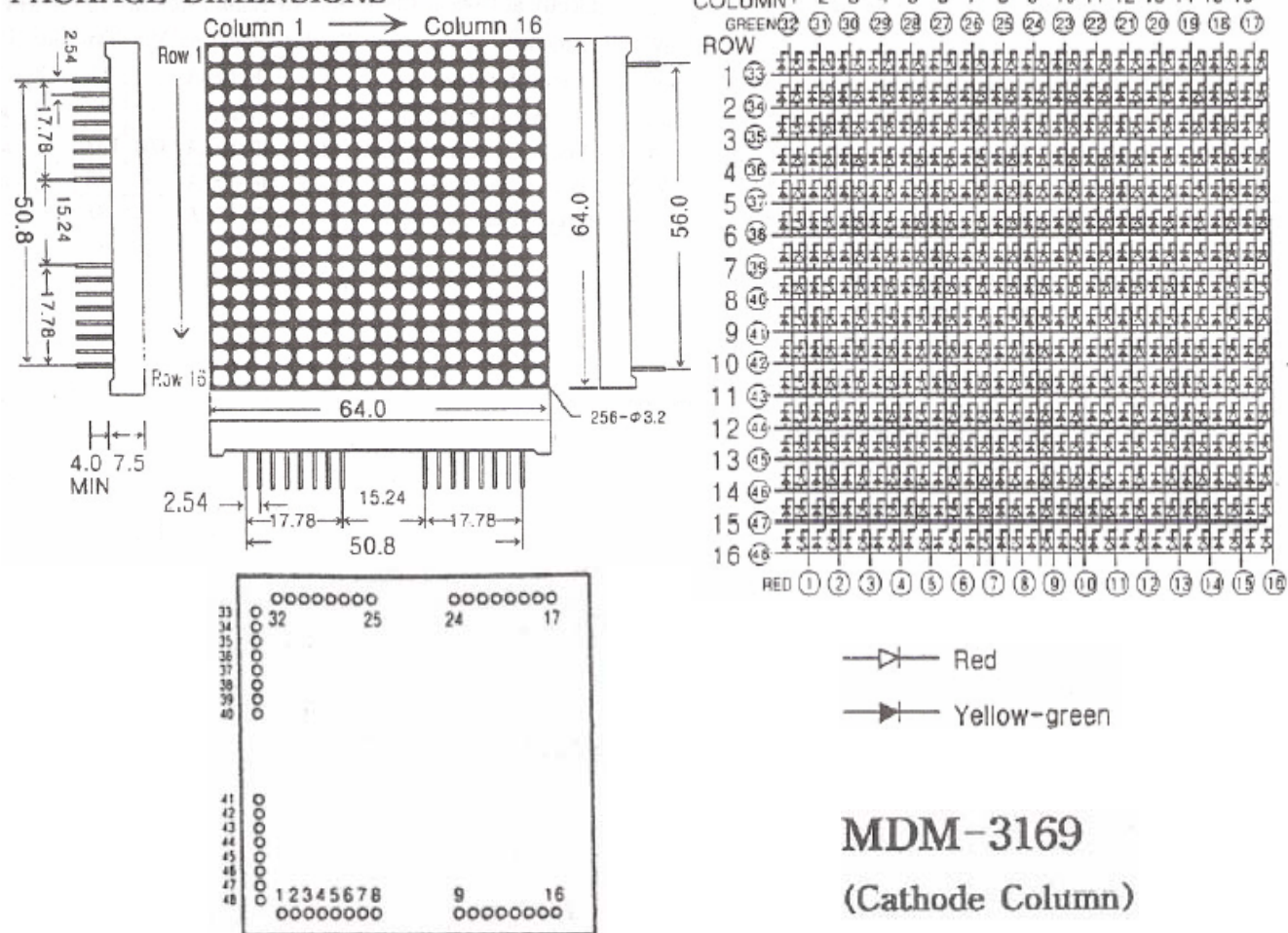
2.52"(64.0mm) Dual-Color 16×16  $\phi$ 3.2 Dot Matrix LED Display

## GENERAL DESCRIPTION

The MDM-3169(cathode column) is a high performance epoxy resin molded 64.0×64.0mm 3.2-pie dot matrix LED DISPLAYS. A red and green chips are contained in each dots and it could be displayed in red or green color separately and also appears in amber color when drive to red and green in the same time.

The standard unit is constructed with black face and milky white segment color.

## PACKAGE DIMENSIONS



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# MIKWANG ELECTRONICS

# MDM-3169

## ◆ Red MDM-UR3169 (AlGaAs/GaAs)

### Absolute Maximum Ratings (Ta=25°C)

Power dissipation/total	10240	mW
Power dissipation/seg	40	mW
Forward current	20	mA
Peak forward current	60	mA
Reverse voltage	5	V
Operating temperature	-25~+85	°C
Storage temperature	-55~+100	°C

### Electrical/Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward voltage/seg	V <sub>f</sub>	I <sub>f</sub> =10mA	-	1.8	2.0	V
Reverse current/seg	I <sub>r</sub>	V <sub>r</sub> =5V	-	-	10	μA
Luminous intensity/digit	I <sub>v</sub>	I <sub>f</sub> =10mA	1300	2500	-	μcd
Peak wave length	λ <sub>p</sub>	I <sub>f</sub> =10mA	-	660	-	nm
Spectral line half width	Δλ	I <sub>f</sub> =10mA	-	20	-	nm

## ◆ Green MDM-UG3169 (GaP)

### Absolute Maximum Ratings (Ta=25°C)

Power dissipation/total	12288	mW
Power dissipation/seg	48	mW
Forward current	20	mA
Peak forward current	60	mA
Reverse voltage	5	V
Operating temperature	-25~+85	°C
Storage temperature	-55~+100	°C

### Electrical/Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward voltage/seg	V <sub>f</sub>	I <sub>f</sub> =10mA	-	2.2	2.4	V
Reverse current/seg	I <sub>r</sub>	V <sub>r</sub> =5V	-	-	10	μA
Luminous intensity/digit	I <sub>v</sub>	I <sub>f</sub> =10mA	600	1200	-	μcd
Peak wave length	λ <sub>p</sub>	I <sub>f</sub> =10mA	-	570	-	nm
Spectral line half width	Δλ	I <sub>f</sub> =10mA	-	30	-	nm

- ◆ Pulse Width - 1ms
- Duty Cycle - 1/5