

CUSTOMER : _____

NO. : MKM-

EDIT :

DATE :

SPECIFICATION FOR APPROVAL

PRODUCT : 3.78"(96.0mm) Dual-Color 16×16 Ø4 Dot Matrix LED Display

MODEL NO. MDM-5169

APPROVAL			REVISION
CHK	CHK	APPD.	
REMARKS			



MIKWANG ELECTRONICS CO., LTD.

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MI KWANG ELECTRONICS

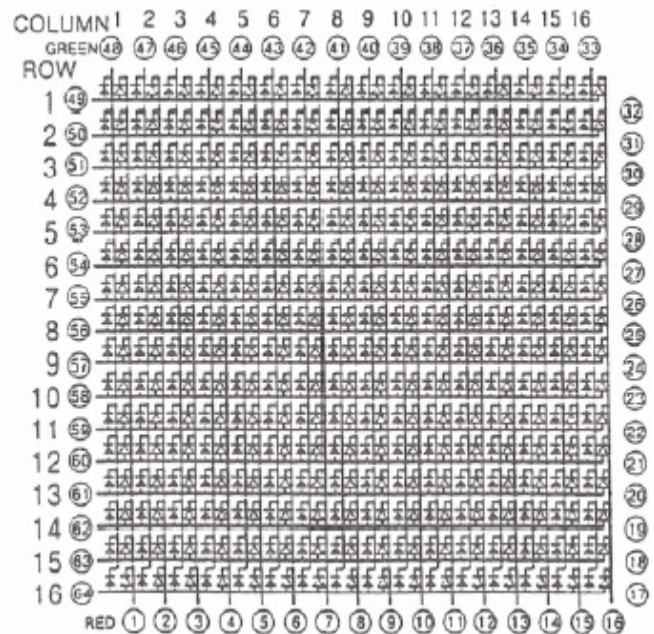
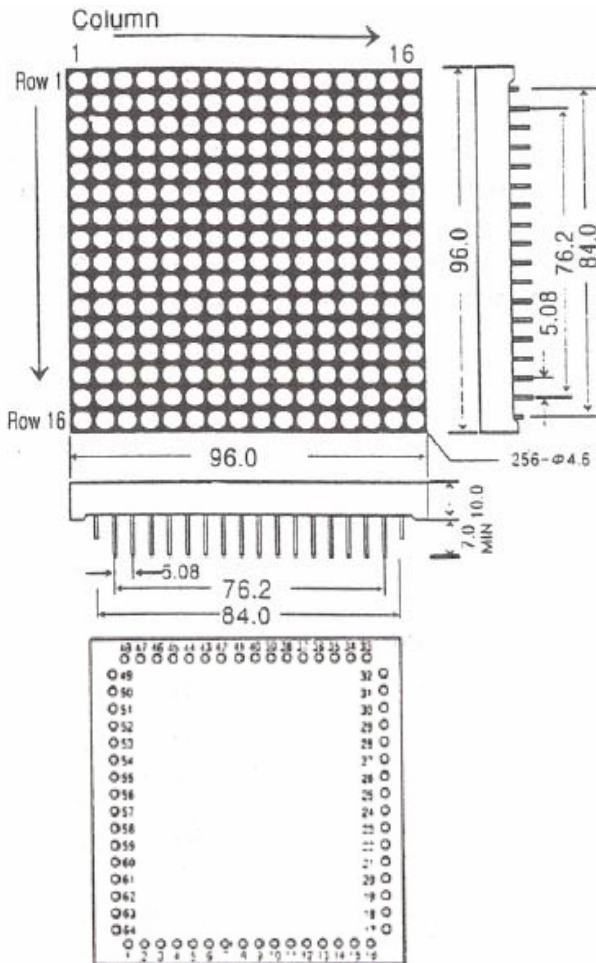
MDM-5169

3.78-inch(96.0mm) Dual-Color 16×16 4.6-pie Dot Matrix LED DISPLAYS

GENERAL DESCRIPTION

The MDM-5169(cathode column) is a high reliability epoxy molded 96.0×96.0mm 4.6-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 appears in amber color when drive to red and green side in the same time.

PACKAGE DIMENSIONS



—▷— Red
 —▷— Yellow-green

MDM-5169
 (Cathode Column)

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MDM-5169

◆ Red MDM-SR5169 (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	Vf	If=10mA	-	1.8	2.0	V
Reverse current/seg	Ir	Vr=5V	-	-	10	μA
Luminous intensity/digit	Iv	If=10mA	900	1500	-	μcd
Peak wave length	λp	If=10mA	-	660	-	nm
Spectral line half width	Δλ	If=10mA	-	20	-	nm

◆ Green MDM-UG5169 (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	Vf	If=10mA	-	2.2	2.4	V
Reverse current/seg	Ir	Vr=5V	-	-	10	μA
Luminous intensity/digit	Iv	If=10mA	600	1200	-	μcd
Peak wave length	λp	If=10mA	-	570	-	nm
Spectral line half width	Δλ	If=10mA	-	30	-	nm

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