

CUSTOMER : _____

NO. : MKM-

EDIT :

DATE :

SPECIFICATION FOR APPROVAL

PRODUCT : 2.3" Single-Digit 7-Segment Numeric Display(2-color)

MODEL NO. MD-2312/2319

APPROVAL			REVISION
CHK	CHK	APPD.	
REMARKS			



MIKWANG ELECTRONICS CO., LTD.

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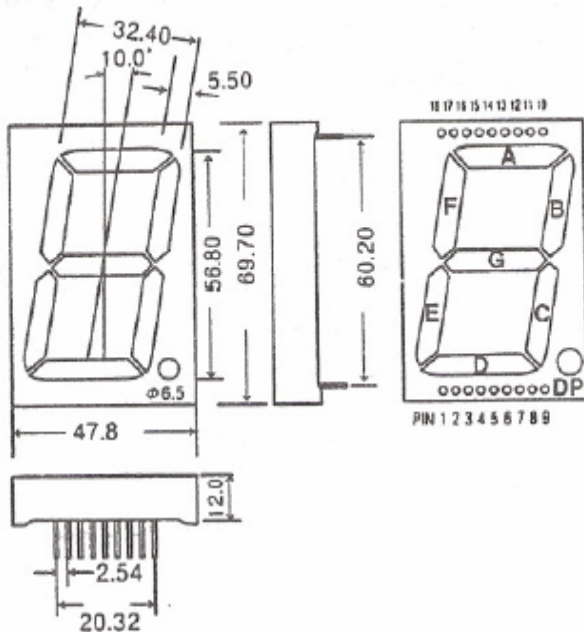
MI KWANG ELECTRONICS MD-2312/2319

2.3 Inch Single-Digit 7-Segment Numeric Display(2-color)

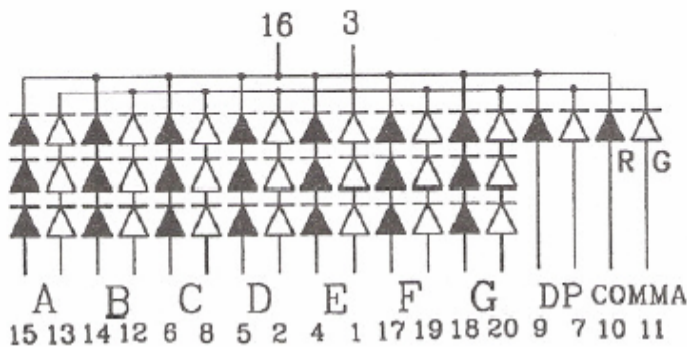
GENERAL DESCRIPTION

The MD-2312 and MD-2319 series are high performance epoxy resin molded 1-digit 7-segment LED displays for an application which space is at a premium.

The character height is approximately 2.3-inch(56.9mm) and available in red, green, orange and yellow-green emitting colors. The standard unit is constructed with black face and milky white segment color.



Actual size



= ORANGE
 = GREEN

Cathode Common(MD-3-2312)

*Anode Common(MD-3-2319)

All diodes are reversed polarity

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◆ Red MD-UR2312/UR2319 (AlGaAs/GaAs)

Absolute Maximum Ratings (Ta=25°C)

Power dissipation/total	880	mW
Power dissipation/seg	120	mW
Forward current	20	mA
Peak forward current	60	mA
Reverse voltage	15	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	-	5.4	6	V
Reverse current/seg	Ir	Vr=15V	-	-	10	μA
Luminous intensity/digit	Iv	If=10mA	800	2500	-	μcd
Peak wave length	λp	If=10mA	-	660	-	nm
Spectral line half width	Δλ	If=10mA	-	20	-	nm

◆ Green MD-UG2312/UG2319 (GaP)

Absolute Maximum Ratings (Ta=25°C)

Power dissipation/total	1048	mW
Power dissipation/seg	144	mW
Forward current	20	mA
Peak forward current	60	mA
Reverse voltage	15	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	-	6.6	7.2	V
Reverse current/seg	Ir	Vr=15V	-	-	10	μA
Luminous intensity/digit	Iv	If=10mA	500	1000	-	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