



深圳市国冶星光电子有限公司  
SHENZHEN GUOYEXING OPTOELECTRONICS CO.,LTD.

## 承认书

SPECIFICATION FOR APPROVAL

客户名称Customer: \_\_\_\_\_

产品型号Model: GYXM-1588AURPGB

承认书编号No: DD-CR-1207-012

制作日期 Date: 2012-07-18

附产品规格书Enclosure is the specification

深圳市国冶星光电子有限公司

SHENZHEN GUOYEXING OPTOELECTRONICS CO.,LTD.

生产部 Production Dept.	品质部 Quality Dept.	工程部 Engineering Dept.	市场部 Marketing Dept.

客户确认签名

APPROVED SIGNATURES

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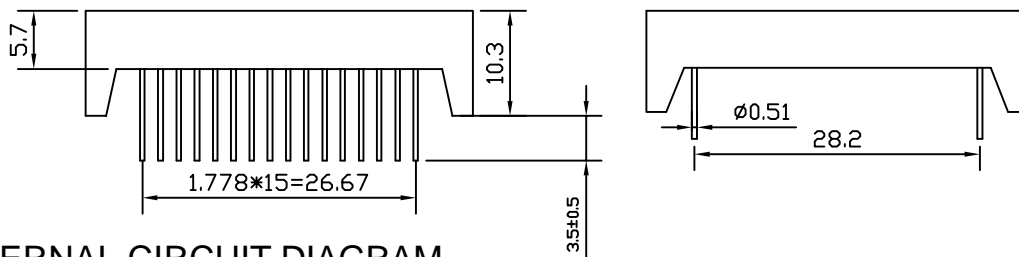
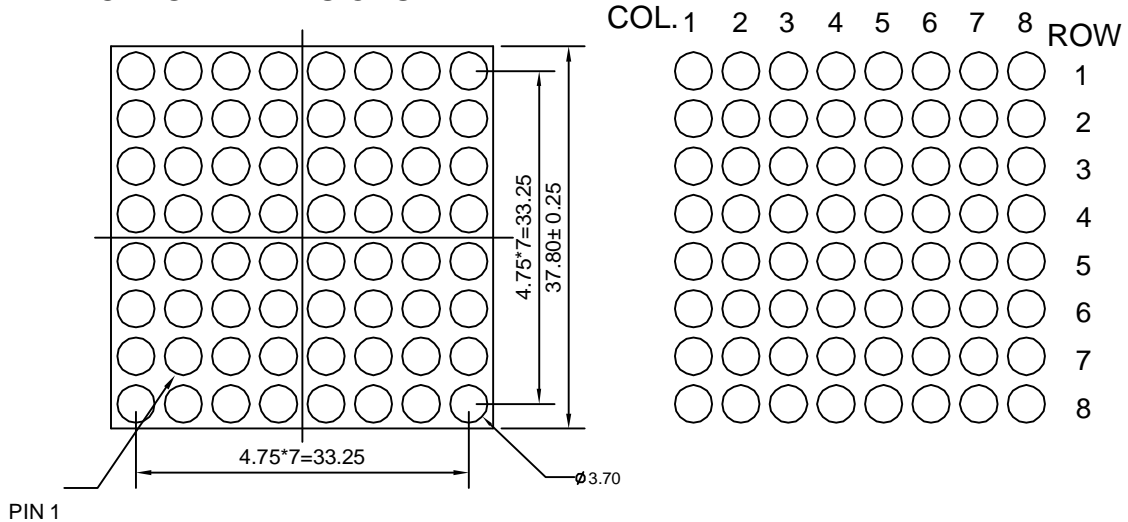
# GYXM-1588AURPGB



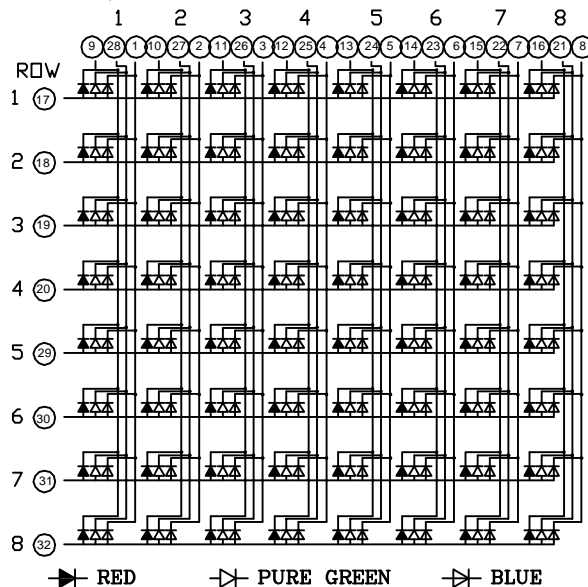
## Features

- ◆ Low current operation.
- ◆ Excelent character appearance.
- ◆ Easy mounting on P.C.boards or sockets.
- ◆ RoHS compliant
- ◆ Electrostatic sensitive devices

## PACKAGE DIMENSIONS



## INTERNAL CIRCUIT DIAGRAM



### NOTES:

1. All Dimensions are in millimeters(inches).
2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted



General Information

Part NO.	Chip Material	Emitting Color	Lens Type	Description
GYXM-1588AURPGB	GaAlP/GaP	RED	Water Clear	Common Anode
	GaN	PURE GREEN	Water Clear	
	GaN	BLUE	Water Clear	

Electrical/Optical Characteristics at Ta=25 °C

Parameter	Symbol	RED			GREEN			BLUE			Unit	Conditions
		MIN.	Typ.	Max.	MIN.	Typ.	Max.	MIN.	Typ.	Max.		
Luminous Intensity	Iv	90	110	120	240	225	270	70	78.3	80	mcd	IF=20mA
Peak Wavelength	$\lambda_P$	—	—	—	—	—	—	—	—	—	nm	IF=20mA
Dominant Wavelength	$\lambda_D$	620	623.8	625	522.5	523.2	525	466	466.8	468	nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$	—	20	—	—	20	—	—	20	—	nm	IF=20mA
Forward Voltage	VF	1.6	2.0	2.5	2.8	3.2	3.8	2.8	3.2	3.8	V	IF=20mA
Reverse Current	IR	—	—	50	—	—	50	—	—	50	uA	VR=5V

Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	Pd	65	mW
		80	
		80	
Forward Current	IF	20	mA
Peak Forward Current(1)	IF(Peak)	30	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-20° c+60° c	
Storage Temperature	Tstg	-20° c+60° c	
Lead Solder Temperature(2)	Tsol	260° c for 3~5 seconds	

Notes:

- 1/10 duty cycle, 0.1ms pulse width.
- 2mm below package base.