

Feature:

- Low power consumption
- Packed in tube
- Available in Red/Yellow/Yellow Green

Description:

These 2.1" 5x7 dot matrix displays are made with white got and grey surface.

Application:

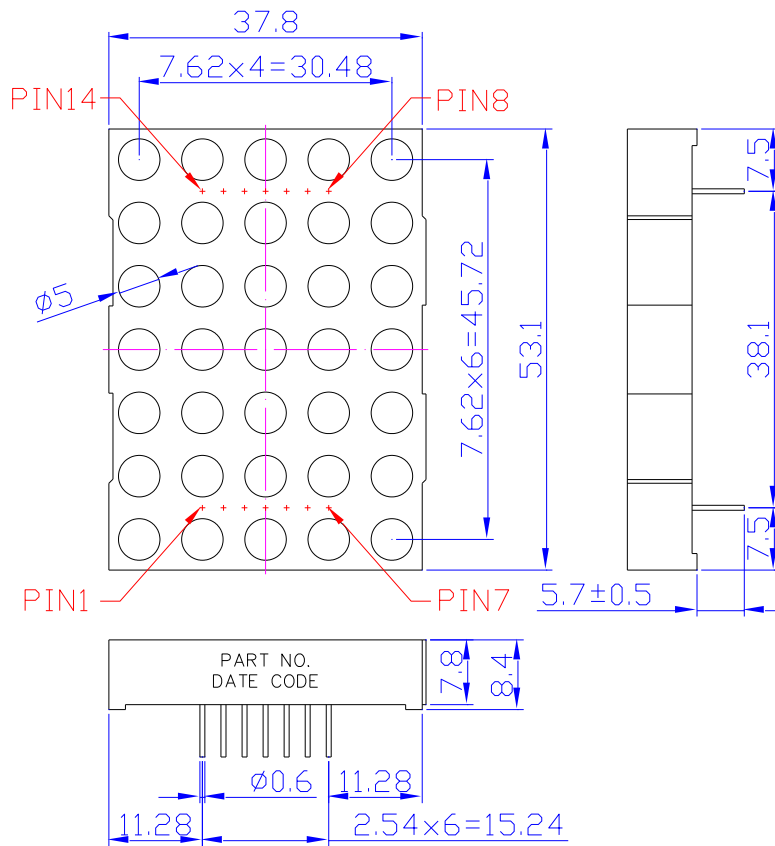
- Instrument panels
- Indoor/Outdoor display board
- Audio equipment

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.25mm

Electrical / Optical Characteristic (T=25 °C)

Product		Material	Color	I _F (mA)	V _F (V)	λ(nm)		I _V (mcd)
CC	CA				Typ.	λ _D	λ _P	typ.
GMC21IB75	GMA21IB75	InGaN	Blue	20	3.0	460	470	160
GMC21IG75	GMA21IG75	InGaN	Green	20	3.0	460	470	200
GMC21R75	GMA21R75	AllnGaP	Red	20	2.0	624	632	60
GMC21Y75	GMA21Y75	AllnGaP	Yellow	20	2.0	589	591	35
GMC21AG75	GMA21AG75	AllnGaP	Yellow Green	20	2.0	573	575	25

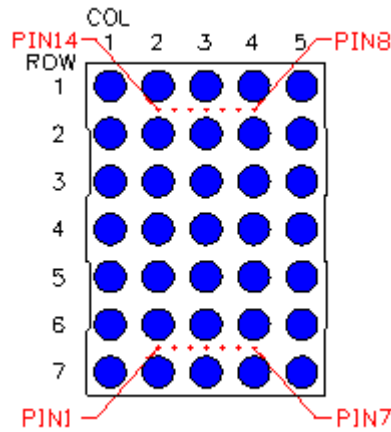
Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SO L} (°C)**
InGaN (IB/IG)	120	30	100	5	-40 - 85	-40 - 100	260
AllnGaP (R/Y/AG)	70	30	90	5	-40 - 85	-40 - 100	260

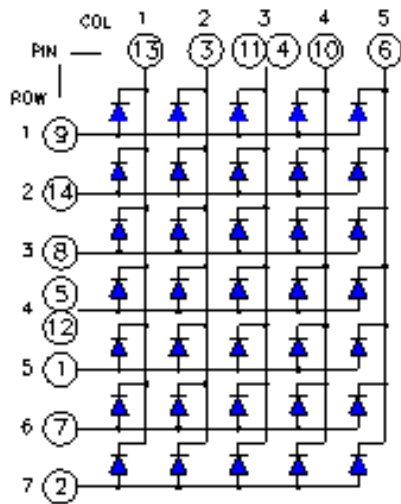
*Duty 1/10 @ 1KHz

** IR Reflow for no more than 5 sec @ 260 °C

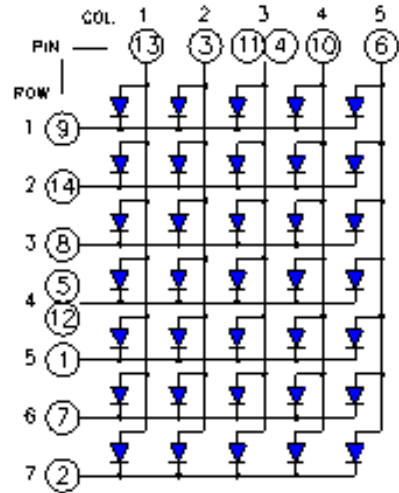
Pin Configuration



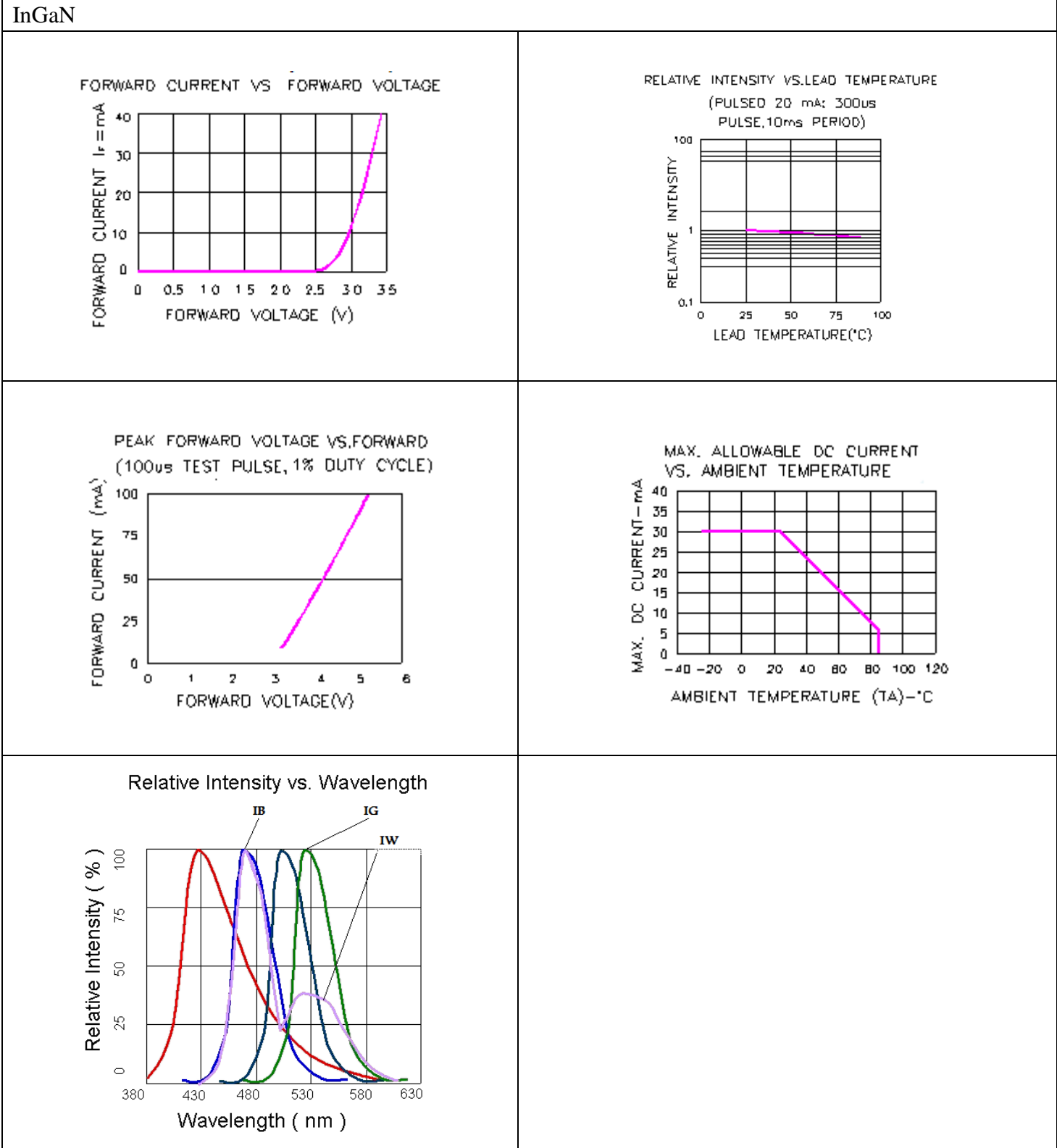
CC



CA

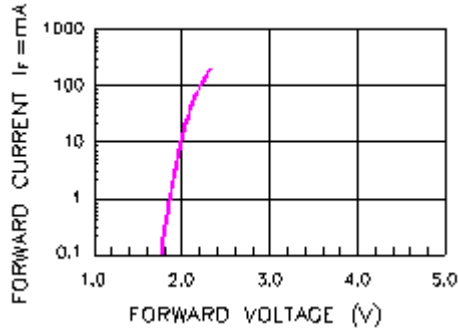


Characteristic Curves:

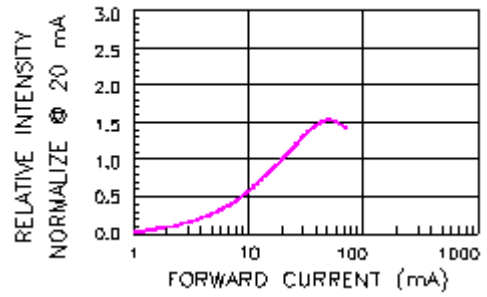


AlInGaP

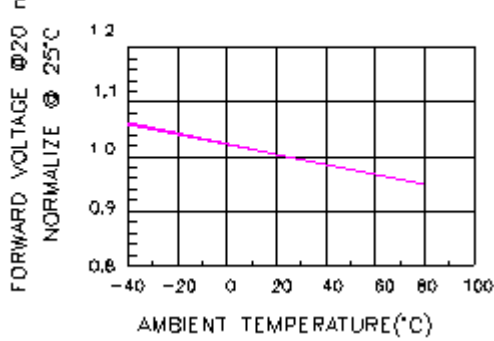
FORWARD CURRENT VS. FORWARD VOLTAGE



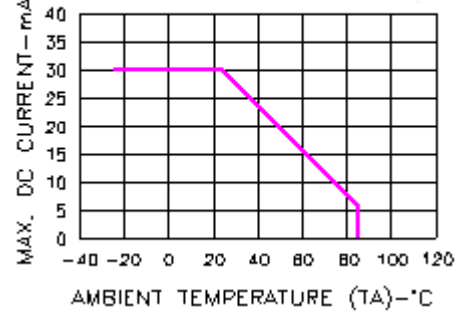
RELATIVE INTENSITY VS FORWARD CURRENT



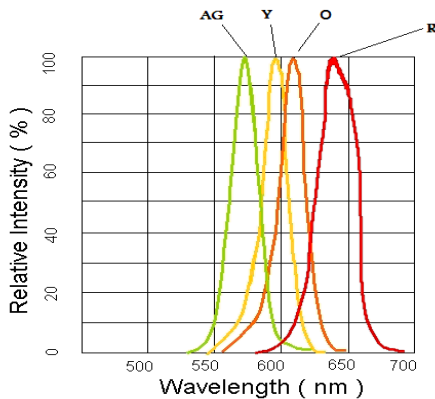
FORWARD VOLTAGE VS. TEMPERATURE



MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



Relative Intensity vs. Wavelength

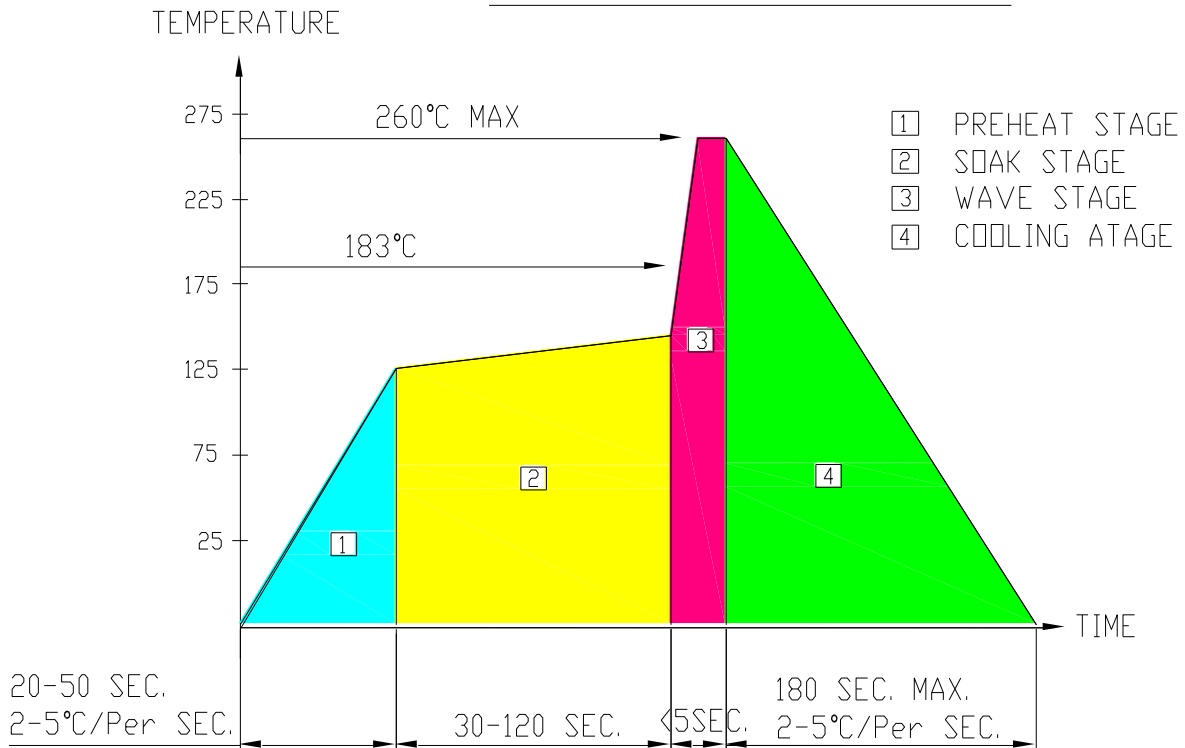


Labeling:



Soldering Profile:

WAVE SOLDER PROFILE



Ordering Information:

Product		Spec Range	Quantity per tube
CC	CA		
GMC21IB75	GMA21IB75	Iv=160mcd typ. @ I _F =20mA	TBD
GMC21IG75	GMA21IG75	Iv=200mcd typ. @ I _F =20mA	TBD
GMC21R75	GMA21R75	Iv=60mcd typ. @ I _F =20mA	TBD
GMC21Y75	GMA21Y75	Iv=35mcd typ. @ I _F =20mA	TBD
GMC21AG75	GMA21AG75	Iv=25mcd typ. @ I _F =20mA	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of GMZ21XX75_series	V1.0	05/27/2011
Add Blue and Green Color Spec.	V1.2	07/13/2011