

Features

- Low power consumption
- High Efficiency
- 3 mm Lamp
- Easy to assembly
- White Diffused lens
- Good control and free combinations on the colors of Lamps
- Compliance with EU REACH
- The product itself remain within RoHS compliant version

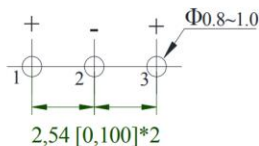
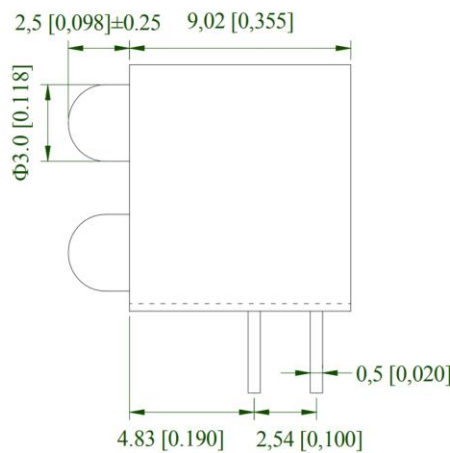
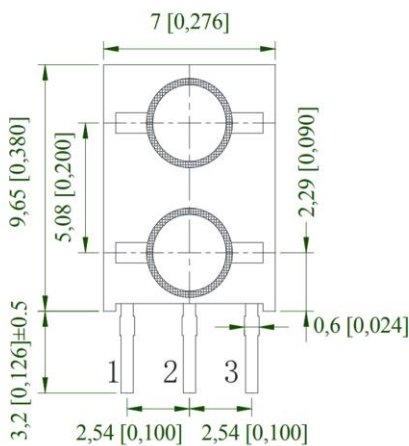
Applications

- Communication
- Industry
- Computer

Description

- CBI (Circuit Board Indicator) is a black plastic right angel holder (Housing).
- CBI (Circuit Board Indicator) is available in a wide variety of packages, including top-view (Spacer) or right angle and horizontal or vertical arrays which is stackable and easy to assembly.

Package Dimensions in mm



RECOMMENDED
P.C.B LAYOUT



Note:
1 Yellow Anode
2 Common Cathode
3 Green Anode



Note:
1 Red Anode
2 Common Cathode
3 Green Anode



Note:
1 Red Anode
2 Common Cathode
3 Yellow Anode

Figure 1. INH-3DWUXX80 series Package Dimensions

Notes

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.039") max.

Absolute Maximum Rating at 25°C

Product	Emission Color	P _d (mW)	I _F (mA)	I _{FP} * (mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
INH-3DWURYG80	Red	65	25	100	5	-40°C~+80°C	-40°C~+85°C
	Yellow Green	65	25	100	5	-40°C~+80°C	-40°C~+85°C
INH-3DWUYYG80	Yellow	65	25	100	5	-40°C~+80°C	-40°C~+85°C
	Yellow Green	65	25	100	5	-40°C~+80°C	-40°C~+85°C
INH-3DWUDRY80	Deep Red	65	25	100	5	-40°C~+80°C	-40°C~+85°C
	Yellow	65	25	100	5	-40°C~+80°C	-40°C~+85°C

Notes

1. Derate linearly as shown in derating curve.
2. Duty Factor = 10%, Frequency = 1kHz.

Electrical and Optical Characteristic (@ 25°C)

Product	Emission Color	I _F (mA)	V _F (V)		λ(nm)			Viewing Angle	I _V (mcd)	
			min	max	λ _D	λ _P	Δλ	2θ1/2	min	typ.
INH-3DWURYG80	Red	20	1.6	2.6	630	645	45	80	9	20
	Yellow Green	20	1.6	2.6	571	565	20	80	13	30
INH-3DWUYYG80	Yellow	20	1.6	2.6	588	590	35	80	13	30
	Yellow Green	20	1.6	2.6	571	565	20	80	13	30
INH-3DWUDRY80	Deep Red	20	1.6	2.6	640	660	45	80	20	45
	Yellow	20	1.6	2.6	588	590	35	80	13	30

Notes

- Brightness tolerance = +/- 10%
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2θ 1/2 is the o-axis angle where the luminous intensity is 1/2 the peak intensity.
- The dominant wavelength (λ_D) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

ESD Precaution

ATTENTION: Electrostatic Discharge (ESD) protection

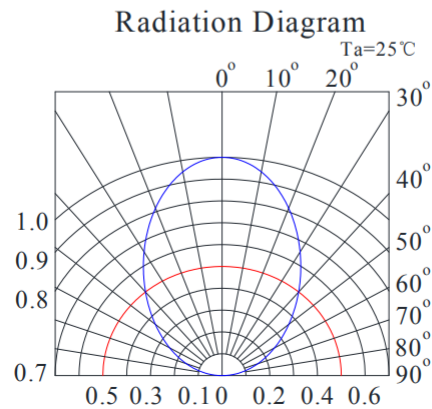
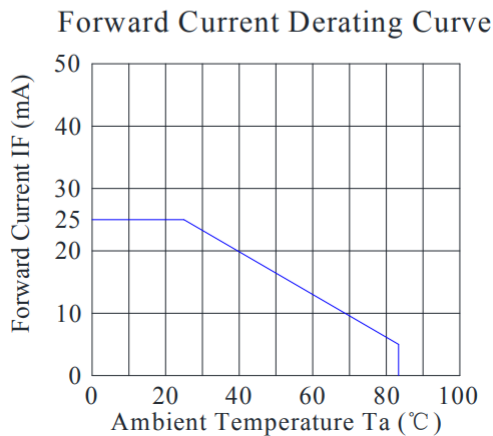
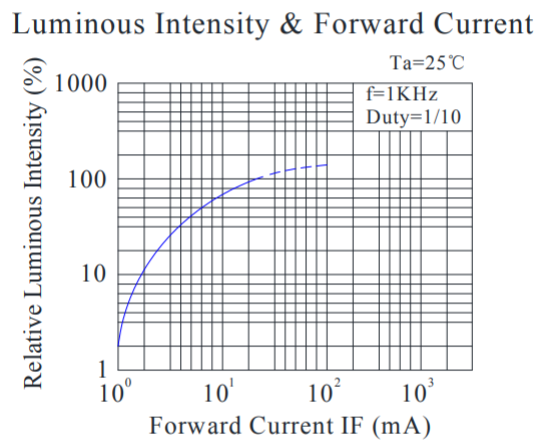
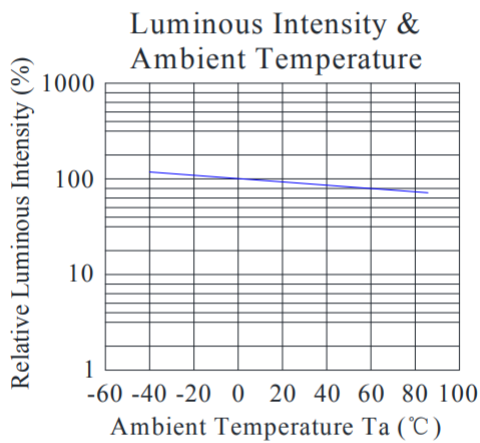
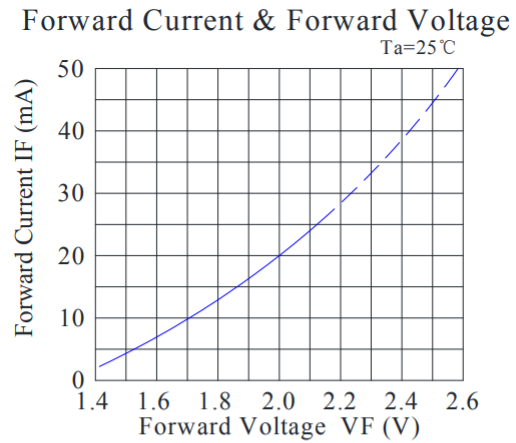
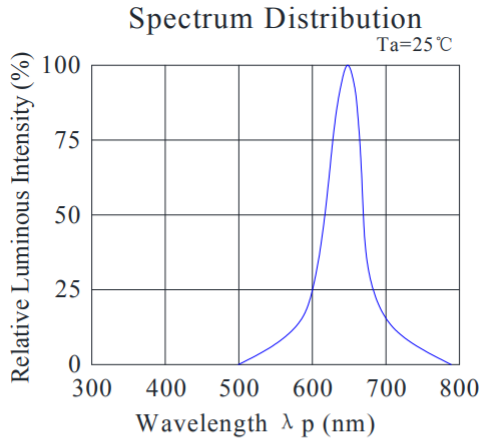


The symbol above denotes that ESD precaution is needed. ESD protection for GaP and AlGaAs based chips is necessary even though they are relatively safe in the presence of low static-electric discharge. Parts built with AlInGaP, GaN, or/and InGaN based chips are STATIC SENSITIVE devices. ESD precaution must be taken during design and assembly.

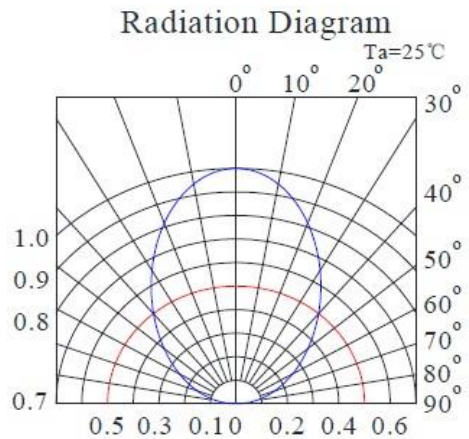
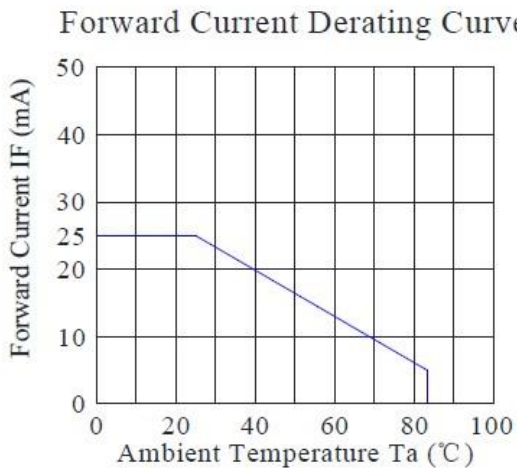
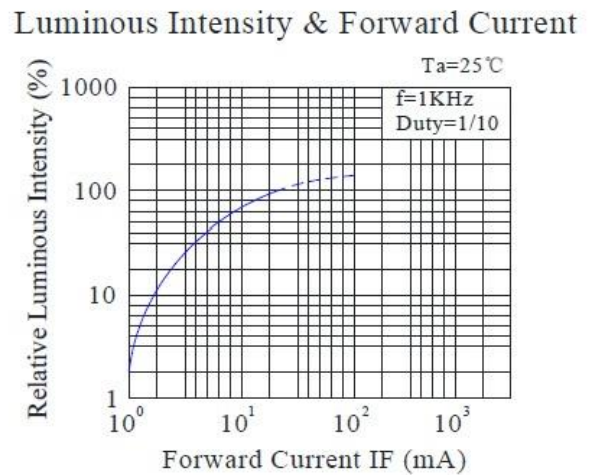
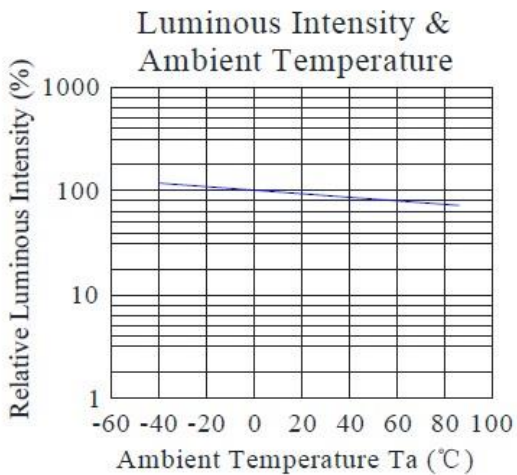
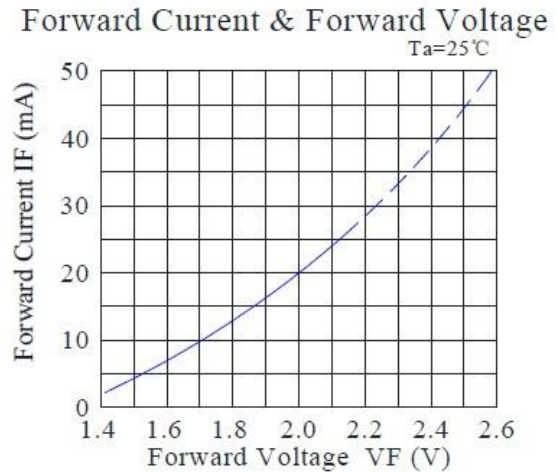
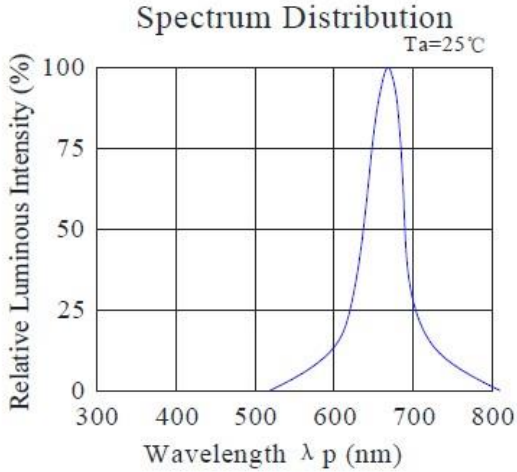
If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.

Please be advised that normal static precautions should be taken in the handling and assembly of this device to prevent damage or degradation which may be induced by electrostatic discharge (ESD).

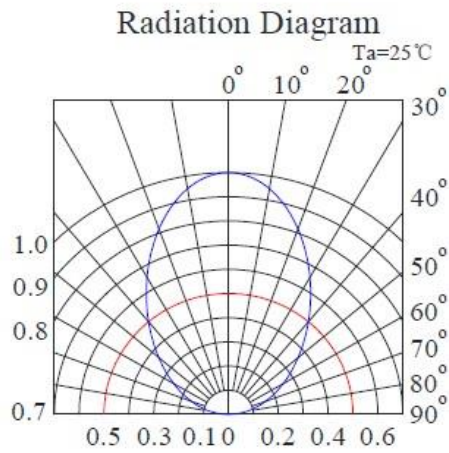
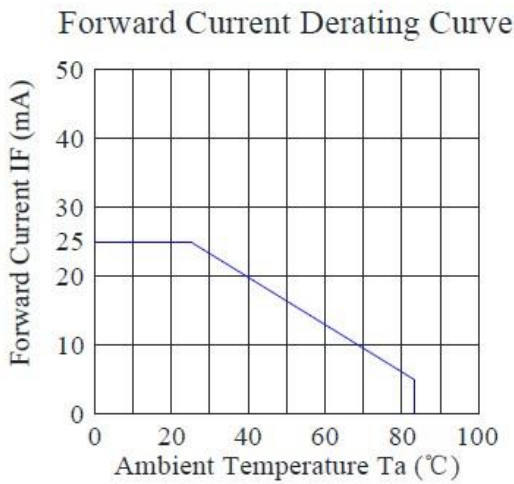
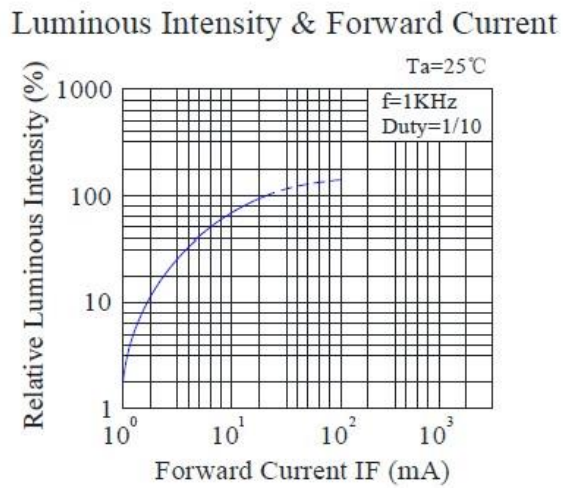
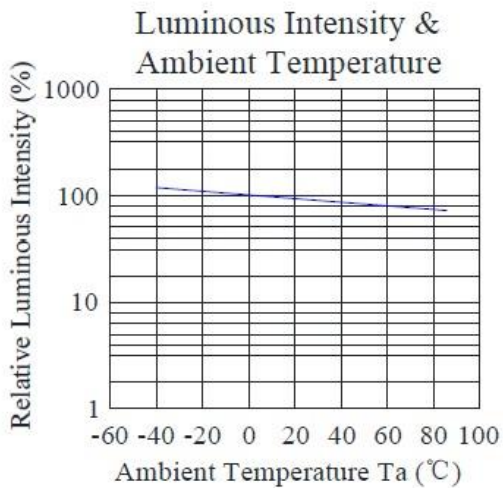
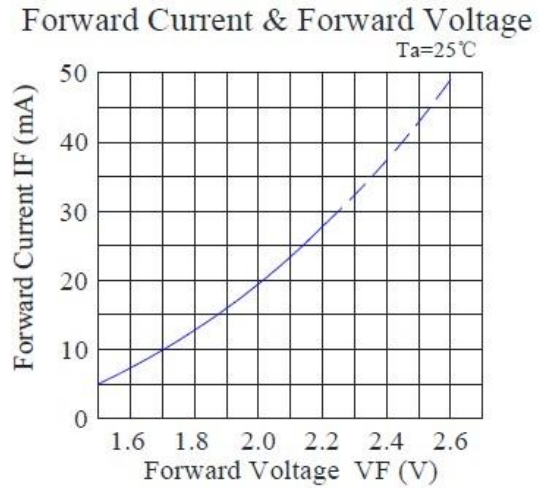
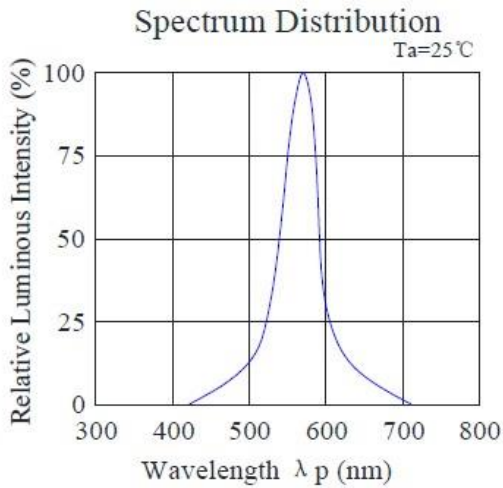
Typical Characteristic Curves: Red



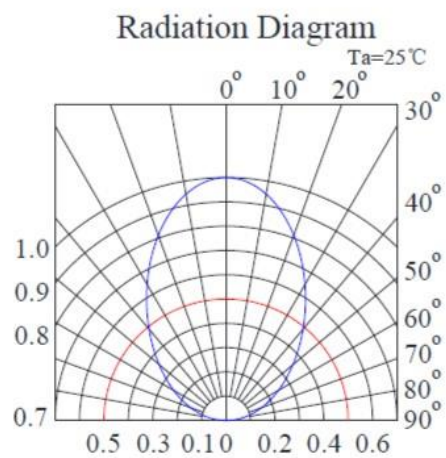
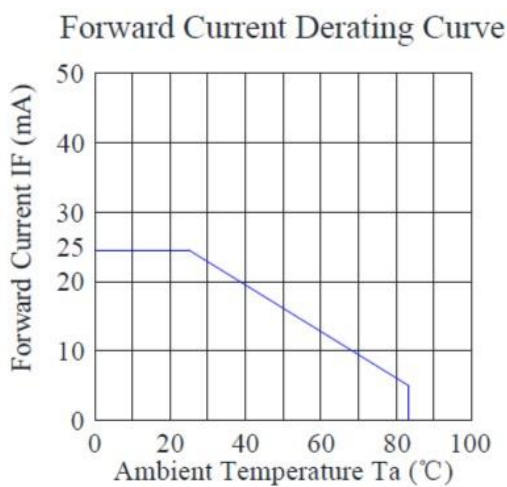
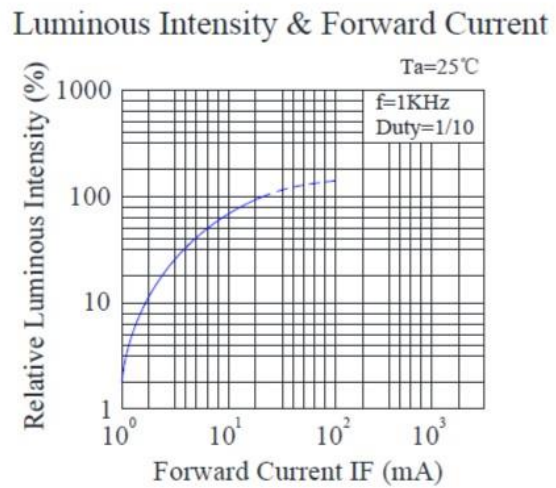
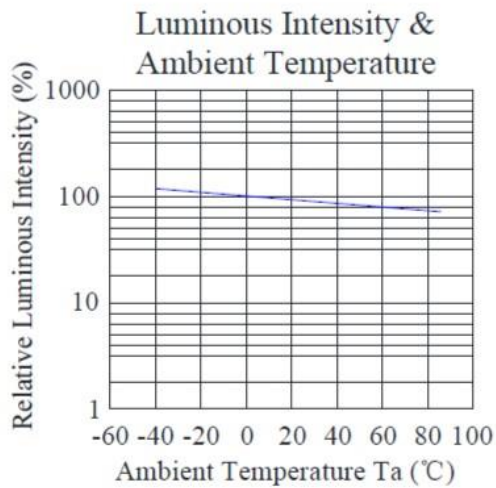
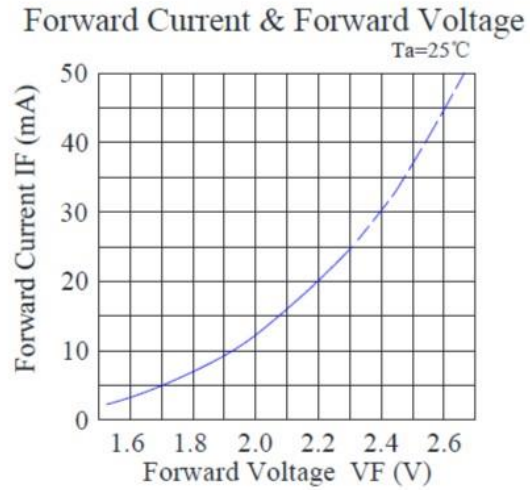
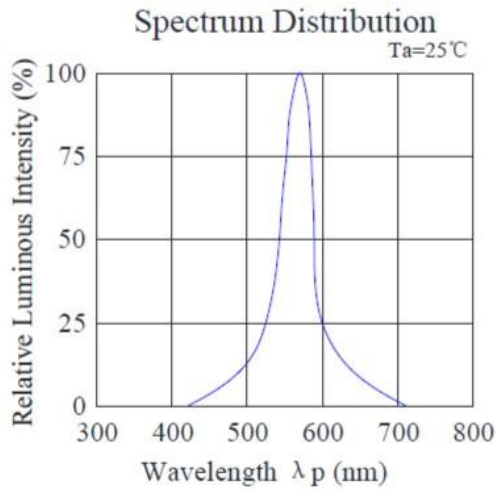
Typical Characteristic Curves: Deep Red



Typical Characteristic Curves: Yellow



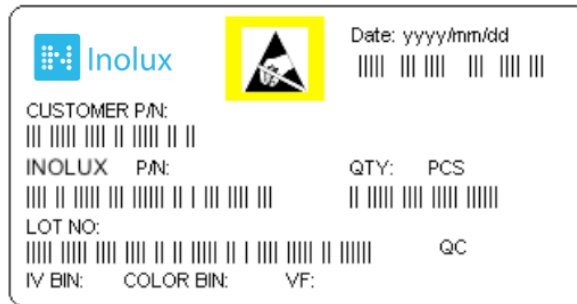
Typical Characteristic Curves: Yellow Green



Ordering Information

Product	Emission Color	Test Current IF (mA)	Luminous Intensity IV (mcd) (Typ.)	Forward Voltage VF (V) (Typ.)	Orderable Part Number
INH-3DWURYG80	Red	20	20	2.0	INH-3DWURYG80
	Yellow Gree	20	30	2.2	
INH-3DWUYYG80	Yellow	20	30	2.0	INH-3DWUYYG80
	Yellow Green	20	30	2.2	
INH-3DWUDRY80	Deep Red	20	45	2.2	INH-3DWUDRY80
	Yellow Green	20	30	2.0	

Label Specifications





INH-3DWUXX80 Series
3mm Round, Dual Lamps
Dual Level Circuit Board Indicator

Inolux P/N:

I	N	H	-	3	D	WU	X	X	8	0	-	X	X	X	X
Inolux Through Hole with Housing				Package	Lamp Qty	Lens	Color		View Angle			Customized Stamp-off			
				3 = 3mm	2 = 2 lamps	WU = White Diffused	R: 630nm DR: 640nm Y: 590nm YG: 570nm		80 = 80 deg.						

Lot No.:

Z	2	0	1	7	01	24	001
Internal Tracker	Year (2017, 2018,)				Month	Date	Serial



Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial Release		1.0	06-19-2020

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