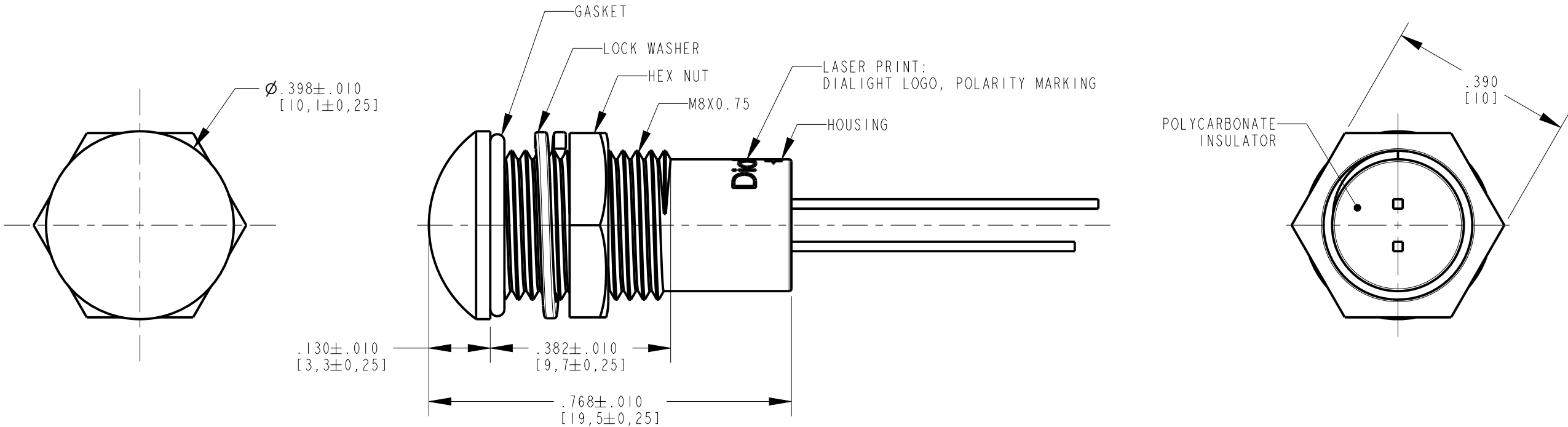


| ASSEMBLY NO.  | OPERATING VOLTAGE | EMITTED COLOR | LENS COLOR      |
|---------------|-------------------|---------------|-----------------|
| 608-1131-110F | 2 VOLT            | RED           | RED DIFFUSED    |
| 608-1231-110F | 2 VOLT            | GREEN         | GREEN DIFFUSED  |
| 608-1331-110F | 2 VOLT            | YELLOW        | YELLOW DIFFUSED |

RoHS COMPLIANT 608-1X31-110F

Part Numbers with the "F" suffix ending are RoHS Compliant. Packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

| REV | ECN NO | REVISIONS                                                            | DRN  | CKD | APP | DATE     |
|-----|--------|----------------------------------------------------------------------|------|-----|-----|----------|
| A   | —      | NEW RELEASE                                                          | TSCH | —   | —   | 03-11-91 |
| B   | 116838 | REVISE LED SPEC TABLES,<br>REVISE 3D MODEL &<br>RE-CREATE C-DRAWING. | JSG  | JY  | JV  | 11APR24  |



NOTES:

1. MOUNTING HOLE SIZE: Ø .323 [8.2mm]
2. MAXIMUM PANEL THICKNESS: .236 [6.0mm]
3. MATERIALS:
  - 3.1 PLASTIC HOUSING: POLYCARBONATE.
  - 3.2 MOUNTING HEX NUT: BRASS, NICKEL PLATED.
  - 3.3 SPLIT LOCK WASHER: STEEL, NICKEL PLATED.
  - 3.4 HEADER/INSULATOR: POLYCARBONATE, COLOR: BLACK.
4. SOLDERABILITY: PER ANSI/IPC-S-805, METHOD A.
5. PRODUCT IS POLARIZED
6. RECOMMENDED MOUNTING TORQUE: 0.217 LBS/FT.
7. RECOMMENDED OPERATING CURRENT: 15 mA.



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

| LED CHARACTERISTICS TABLE |                                  |                                            |                             |                                   |                                  |                                  |                                         |      |                         |                                |      |                    |      |                         |
|---------------------------|----------------------------------|--------------------------------------------|-----------------------------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------------|------|-------------------------|--------------------------------|------|--------------------|------|-------------------------|
| COLOR                     | ABSOLUTE MAXIMUM RATINGS TA=25°C |                                            |                             |                                   |                                  |                                  | (IF= 20mA)ELCTRO-OPTICAL CHARACTERISTIC |      |                         |                                |      |                    |      |                         |
|                           | FORWARD CURRENT<br>IF(mA)        | PEAK FORWARD CURRENT<br>IFp(mA)            | POWER DISSIPATION<br>PD(mW) | OPERATING TEMPERATURE<br>Topr(°C) | STRORAGE TEMPERATURE<br>Tstg(°C) | ELECTROSTAIC DISCHARGE<br>ESD(V) | FORWARD VOLTAGE<br>VF (V)               |      | REVERSE CURRENT<br>(μA) | LUMINOUS INTENSITY<br>Iv (MCD) |      | WAVELENGTH<br>(NM) |      | VIEWING ANGLE<br>(DEG.) |
|                           |                                  |                                            |                             |                                   |                                  |                                  | MIN.                                    | MAX. | MAX.                    | MIN.                           | MAX. | MIN.               | MAX. | TYP.                    |
| RED                       | 30                               | 100<br>(1/10 DUTY CYCLE,0.1ms PULSE WIDTH) | 60                          | -30°C TO +80°C                    | -40°C TO +100°C                  | 3000                             | 1.8                                     | 2.4  | 10μA<br>@ VR=5V         | 120                            | 210  | 630                | 640  | 55                      |
| GREEN                     | 30                               |                                            | 72                          | -30°C TO +80°C                    | -40°C TO +100°C                  | 3000                             | 1.8                                     | 2.4  |                         | 90                             | 160  | 565                | 575  | 35                      |
| YELLOW                    | 30                               |                                            | 72                          | -30°C TO +80°C                    | -40°C TO +100°C                  | 3000                             | 1.8                                     | 2.4  |                         | 70                             | 160  | 585                | 590  | 20                      |

|                                                                                                                                                                                                                                                  |  |                |                                                                                    |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|------------------------------------------------------------------------------------|---------------|
| THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE<br>PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR<br>CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT<br>THE WRITTEN CONSENT OF DIALIGHT CORP. |  |                |                                                                                    |               |
| DIALIGHT CORP INTERNAL REFERENCE ONLY = 3D MODEL : 6781X3111XF.ASM-A.4                                                                                                                                                                           |  |                |                                                                                    |               |
| SCALE: 4.000                                                                                                                                                                                                                                     |  | DRAWING NUMBER | REV                                                                                |               |
| ALL DIM's: INCH (mm)                                                                                                                                                                                                                             |  |                |                                                                                    |               |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                        |  | C-18745        | B                                                                                  |               |
| FRACTIONS: ±1/64                                                                                                                                                                                                                                 |  |                |                                                                                    |               |
| DECIMALS (.XX): ±.01                                                                                                                                                                                                                             |  | TITLE          | 8mm LED PMI                                                                        |               |
| DECIMALS (.XXX): ±.005                                                                                                                                                                                                                           |  |                |                                                                                    |               |
| DECIMALS (.XXXX): ±.0005                                                                                                                                                                                                                         |  | MATERIAL       | —                                                                                  |               |
| ANGLES: ±1°                                                                                                                                                                                                                                      |  |                |                                                                                    |               |
| FINISH                                                                                                                                                                                                                                           |  | Dialight       | 1501 ROUTE 34 SOUTH<br>FARMINGDALE, NJ 07727<br>(732) 919-3119<br>www.dialight.com |               |
| —                                                                                                                                                                                                                                                |  |                |                                                                                    |               |
| FSCM 83330                                                                                                                                                                                                                                       |  | SHEET          | I OF I                                                                             | FAMILY TABLE: |