

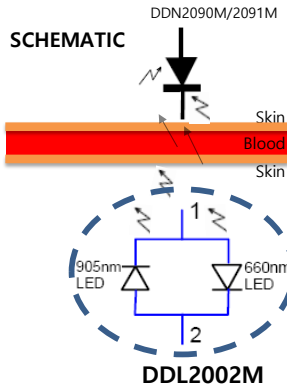


FEATURES

- Two Drive Line Dual LED Emitter
- Dual Red and IR LED Matched to SPO2
- Chip on Board Mold Package

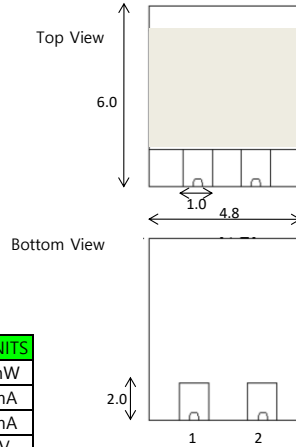
APPLICATIONS

- Transmissive(Reflective)
- Blood Analysis
- Medical Instrumentation
- Radiometric Instrument
- Oximeter Probes



**Blood Sensor Emitter
DDL2002M**

PACKAGE DIMENSION (mm)
w x h x t = 4.8x 6.0 x 1.02



ABSOLUTE MAX. RATINGS (Ta=25°C unless otherwise noted)

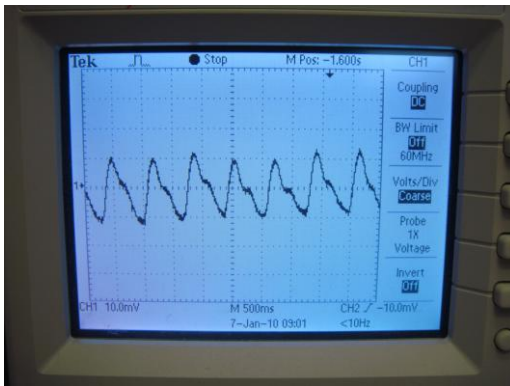
| SYMBOL | PARAMETER | MAX. RATED VALUE | UNITS |
|--------|----------------------------|------------------|-------|
| PD | Power Dissipation | 120 | mW |
| IF | Continuous Forward Current | 50 | mA |
| IFP | Peak Forward Current | 100 | mA |
| VR | Reverse Voltage | 5 | V |
| T stg | Storage Temp | -20 ~ +85 | °C |
| T opr | Operating Temp | -20 ~ +80 | °C |
| T sd | Soldering Temperature*1 | 240 | °C |

*Soldering time : t <3s, **Moisture Sensivity Level 3
 ***Do not soldering on top pads, must soldering on only backside pads
 ****Do prebake 150°C 2HRs if reflow SMT

CHARACTERISTICS (Ta=25°C unless otherwise noted)

| SYMBOL | CHARACTERISTIC | COMPONENTS | TEST CONDITION | MIN | TYP | MAX | UNITS |
|--------|---------------------------|------------|----------------|-----------|-----|-----|-------|
| VF | Forward Voltage | LED1 | IF=20mA | | 1.9 | 2.2 | V |
| | | LED2 | | | 1.3 | 1.5 | |
| IR | Reverse Breakdown Current | LED1,LED2 | VR=5V | | | 10 | uA |
| P O | Output Power | LED1 | IF=20mA | | 1 | | mW |
| | | LED2 | | | 2 | | |
| λ PEAK | Peak Wavelength | LED1 | IF=20mA | | 660 | | nm |
| | | LED2 | | | 905 | | |
| | | LED2* | | *optional | | 940 | |
| Δλ | Half Wave Width | LED1 | IF=20mA | | 30 | | nm |
| | | LED2 | | | 60 | | |

PPG(Photo Plethysmogram) Characteristic DDL2002M with DDN2091M



Packing Information



Anti Static vinyl bag

Label sticker

