



Optic Sensor Emitter

DDL2008M

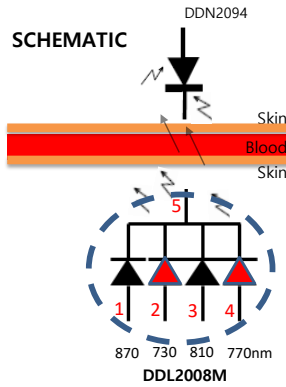
Quadruple LED Lighting

FEATURES

Quadruple LEDs Lighting
Chip on Board Mold Package

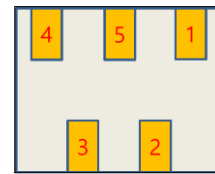
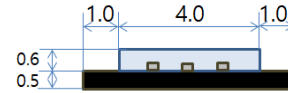
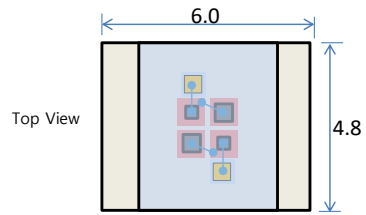
APPLICATIONS

Transmissive (Reflective) Emitting
Blood Flow Analysis
Medical Device
Pulse Oximeter



PACKAGE DIMENSION (mm)

w x h x t = 6.0 x 4.8 x 1.1



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	200	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

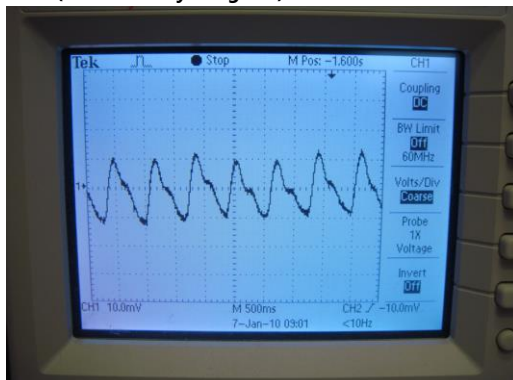
**Moisture Sensivity Level 3

***Do prebake 150°C 1HRs if reflow SMT

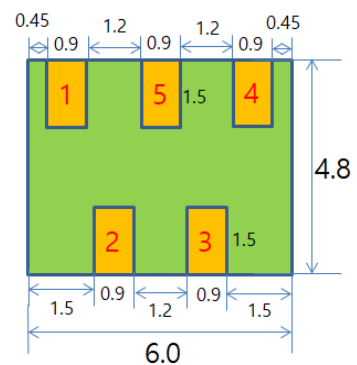
CHARACTERISTICS (Ta=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	COMPONENTS	TEST CONDITION	MIN	TYP	MAX	UNITS
VF	Forward Voltage	LED1	IF=20mA	1.3	1.4	1.5	V
		LED2		1.5	1.6	1.7	
		LED3		1.4	1.5	1.6	
		LED4		1.4	1.5	1.6	
IR	Reverse Breakdown Current	LED 1, 2, 3, 4	VR=5V			10	uA
PO	Output Power	LED1	IF=20mA		6.8		mW
		LED2			9.9		
		LED3			7.1		
		LED4			8.9		
λ PEAK	Peak Wavelength	LED1	IF=20mA	863	868	873	nm
		LED2		728	733	738	
		LED3		801	806	811	
		LED4		762	767	772	
Δλ	Half Wave Width	1, 2, 3, 4	IF=20mA		50		nm

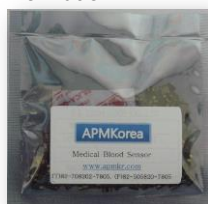
PPG(Photo Plethysmogram) Characteristic DDL2008M with DDN2094



Footprint Top View (mm)



Packing Information



Anti Static vinyl bag
Bulk packing with a silicagel