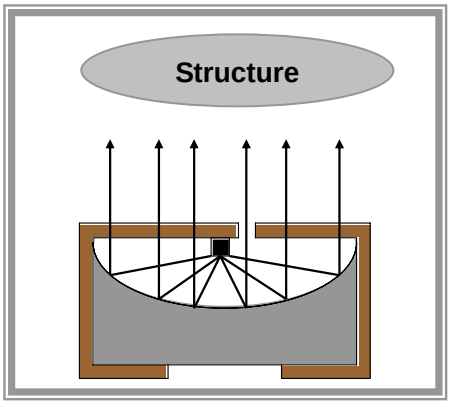
HIGH POWER Reflective Mirror Type LED ~ AOP6-series ~

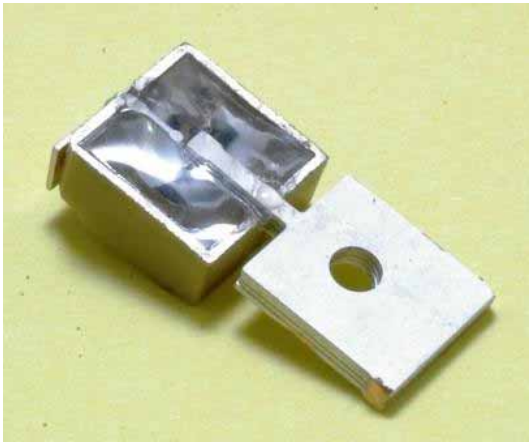
By installing a large size LED die (900 μmx900 μm) in an existing compact square package with reflective mirror side, and using the special lead-frame, AOP6-series can be operated with higher power.

By supplying higher forward current (350mA), ***more than 1.0 W/sr for Infrared ray*** *and* ***more than 100 cd for visible ray*** *can be realized.*



◆ Features

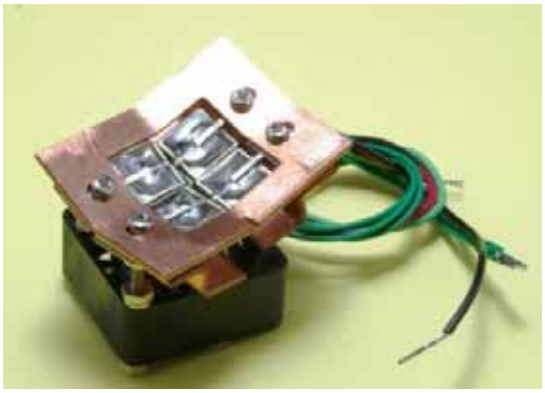
- Extremely high radiant intensity
- Can be operated with higher current
- Excellent beam luminous flux without any collimator lens
- Perfect uniformity ration of illuminance
- Compact size (height: Max. 5mm)
- Narrower beam ray can be realized by using lens.



AOP6-series

◆ Applications

- Optical Projector
- Spot illumination
- Light source for Distant surveillance cameras
- Spatial data transmission
- Light source for Medical instruments
- Light source for various sensors



4 LEDs are assembled onto PCB with heat-sink.

VISIBLE LIGHT LED

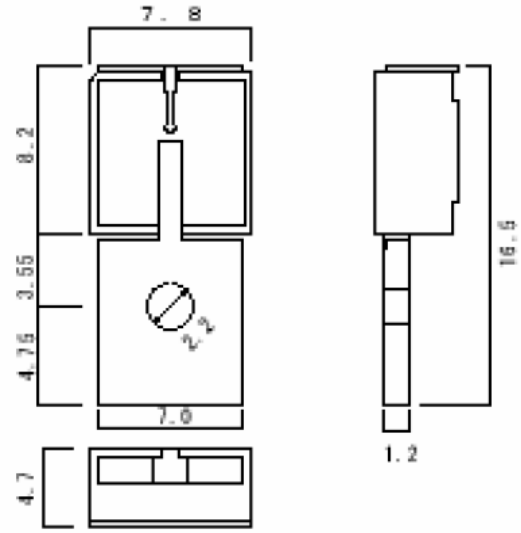
Model No.	Wavelength (nm)	Forward Voltage V_F (V)		Luminous flux* I_V (cd)		Spectral bandwidth: 50%(°)
	λ_P	MAX	I_F(mA)	**TYPICAL**	I_F(mA)	
AOP6-4710HP1	470	3.9	350	**140**	350	±12
AOP6-5310HP1	530	3.9	350	**220**	350	
AOP6-6310HP1	630	2.5	350	**100**	350	

INFRARED LED

Model No.	Wavelength (nm)	Forward Voltage V_F (V)		Radiant Intensity* I_E (W/sr)		Spectral bandwidth: 50%(°)
	λ_P	TYP	I_F(mA)	**TYPICAL**	I_F(mA)	
AOP6-8510HP2	850	1.44	350	**1.05**	350	±14
				1.70	650	
AOP6-8810HP2	870	1.40	350	**1.40**	350	
				2.30	650	

** measured with heat-sink*

External Dimensions (unit: mm)



Note: LED generates heat when it is used with higher current. Then, please note the following instructions when using the Reflective Mirror Type LED.

1. *Do not light the LED only, or the LED would be destroyed with high electrical current.*
2. *Light the LED only after assembling onto PCB with proper **heat-sink**.*
3. *Mount and pinch the LED with a hole between heat-sink PCB and screw the lead and PCB with **mechanical method** like clips or vis (screws).*
4. *Do not mount the LED by soldering, or the LED would be destroyed with high temperature. (Max. heat-neck temperature: 60 °.)*