

**REFLECTIVE MIRROR TYPE LED  
AOP2-9505P1**

Infrared LED

◆ Die & Package

Item	Value
Peak wavelength (typ)	950nm
Die Materials	GaAlAs
Package	Reflective Mirror inside



◆ Absolute Maximum Ratings

Ta = 25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>D</sub>	190	mW
Forward Current (DC)	I <sub>F</sub>	150	mA
Pulse Forward Current (**)	I <sub>FRM</sub>	(1500)	mA
Reverse Voltage (DC)	V <sub>R</sub>	5	V
Operating Temperature	T <sub>opr</sub>	-30 ~ +80	°C
Storage Temperature	T <sub>stg</sub>	-30 ~ +90	°C

\*\* I<sub>FRM</sub>: PW(Pulse width) ≤ 100 μ sec, duty ≤ 1/100

◆ Electro-optical Characteristics

Ta = 25°C

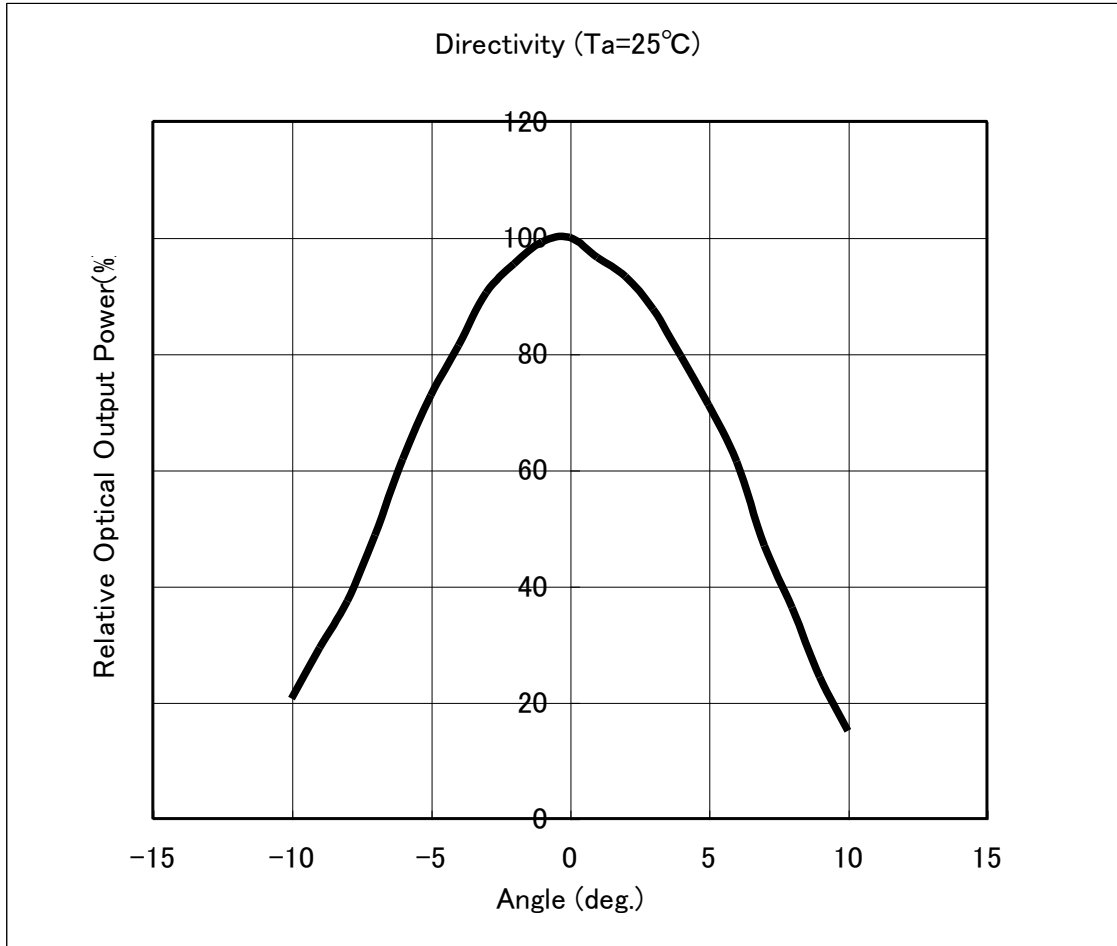
Parameter	Symbol		Value	Unit	
Forward Voltage	V <sub>F</sub>	Typ	1.4	V	I <sub>F</sub> = 50mA
		Max	1.75		
Reverse Current	I <sub>R</sub>	Max	10	μ A	V <sub>R</sub> = 5V
Peak Wavelength	λ <sub>p</sub>	Min	940	nm	I <sub>F</sub> = 50mA
		Typ	950		
		Max	960		
Spectral Half width	Δλ	Typ	30	nm	I <sub>F</sub> = 50mA
Optical Output Power	P <sub>O</sub>	Min	25	mW	I <sub>F</sub> = 50mA
		Typ	35		
Peak Radiant Intensity	I <sub>E</sub>	Min	200	mW/sr	I <sub>F</sub> = 50mA
		Typ	350		
Viewing Half angle at 50%	θ 1/2	Typ	±7	°	I <sub>F</sub> = 50mA
Response Time	Tr / Tf	Typ.	25.0	ns	

The data is subject to change without notice.

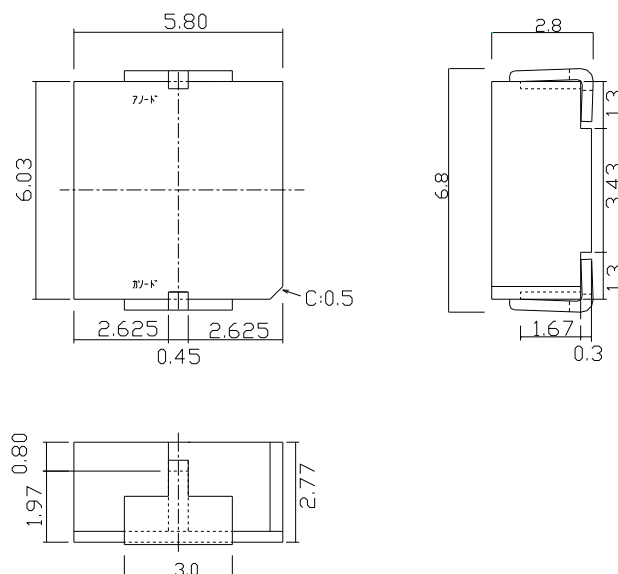
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◆ Directivity



◆ Mechanical Specification ( Dimension ) Unit=mm / ±0.3mm



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◆ **Electro-Optical Characteristics**

