



**LINEMAN™** is a product that can generate line beams with ideal uniformity using an aspherical lens.

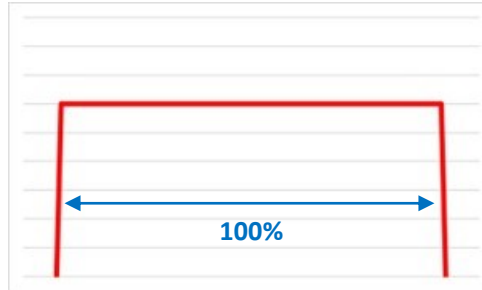
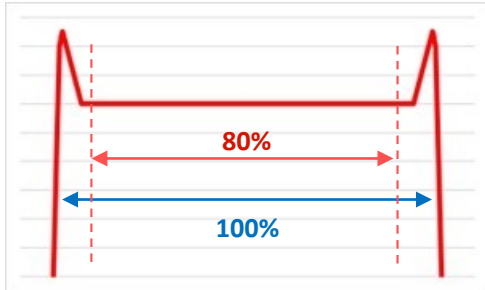


## / Feature /

**Powell lens**

**LINEMAN**

Normalized Intensity [%]



Position [mm]

Position [mm]

	Powell lens	LINEMAN
<b>Side lobes</b>	Strong beam on both ends	none
<b>Uniformity</b>	Good (< 20%)	Excellent (< 8%)
<b>Productivity of optics</b>	Polishing	Good (Mold press)
<b>Repeatability of optics</b>	Skill dependent	Good

## / Lasers lineup for LINEMAN /

( Max. output is module output power )

Wavelength (nm)	405	450	485	520	638	660	785	830
Max. output (mW)	100	40	25	65	60	130	45	80

## / Fan angle /

Fan angle (degree)	10	20	30	45	60	90	collimate

## / Housing lineup /



Φ8mm housing  
(Standard product)



Φ10mm housing  
(High power product)



Housing with  
adjustable holder



Housing with built-in  
adjustment mechanism



**( New products )**

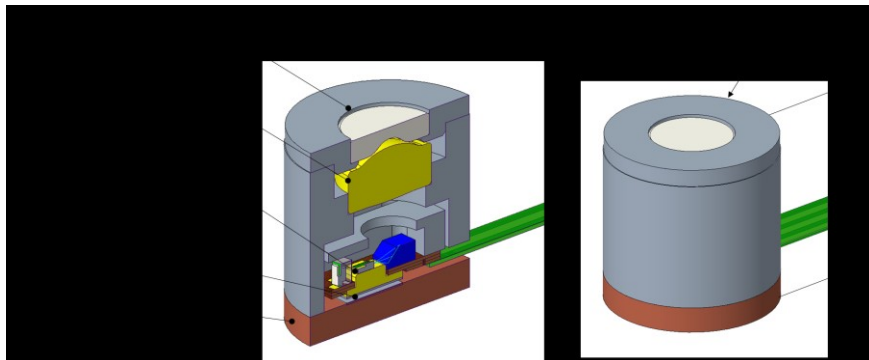
## MULTIPLE LINEMAN



Parallel 3lines  
(Prototype)

**(Developed products )**

## ULTRA COMPACT LINEMAN



/ Example: Sample specification sheet /

### LINEMAN : ALM-660200-1CB3S1

**PRELIMINARY**

■ Absolute Maximum Rating

Item	Value	Unit
Optical output power	110.0	mW
Input voltage	6.0	V
Operating temperature *)	-10~50	°C
Storage temperature *)	-20~60	°C

\*) Housing temperature

■ Electrical and Optical Specification (T housing=25°C) \*\*

Item	Min.	Typ.	Max.	Unit	Condition
Fan angle		30		°	
Focal distance		1500		mm	
Optical output power	95.0	100.0	105.0	mW	
Wavelength	652	660	665	nm	
Line length	760	800	880	mm	at focal distance
Line width	—	590	1350	μm	at focal distance
Line uniformity	—	—	8	%	at focal distance
Input voltage	4.0	5.0	5.5	V	
Operating current	—	250	300	mA	
Line straightness	—	—	0.1	%	at focal distance

\*\* ) All characteristics are simulation results based on design center values.

■ Wire Connections

Wire : 28AWG UL1571, O.D : 0.6+/-0.05mm

Wire	Color	Signal	Function
1	Red	Vcc	Input voltage
2	Black	GND	
3	Green	TTL-Mod.	ON <1V / OFF >4V (Open=ON)

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**PRELIMINARY**

■ Package Dimension (unit : mm)

Heat sinking area

■ Simulation data

Line width vs Working distance

Line uniformity

www.ayasecorporation.com

<https://ayasecorporation.co.jp>

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