

SM RGB Laser Combiner

(2, 3, or more wavelengths in visible)

Product Description

The LCSM Series single mode fiber RGB combiners are based on Agiltron's fused biconical taper technology and compact packaging structure. They enable any two, three or more primary colors in the visible wavelength region to be combined. Configurations are available for full RGB colors of red/green/blue. It features good uniformity, low excess loss and very low polarization sensitivity.

Performance Specifications

Parameters	Max	Unit
Center Wavelengths (λ_c)	640/520/488 or specify	nm
Insertion Loss, R, G, B inputs to output @ λ_c	0.8 typical 1.2 max	dB
Thermal Stability	< 0.005	dB/°C
Directivity	> 50	dB
Return Loss	> 50	dB
Power Handling	100	mW
Fiber	460-HP	
Operating Temperature	0 ~ 65	°C
Storage Temperature	-40 ~ 85	°C

*With connectors, IL+1.5dB, RL-5dB and optical power handling reduces to 50mW.

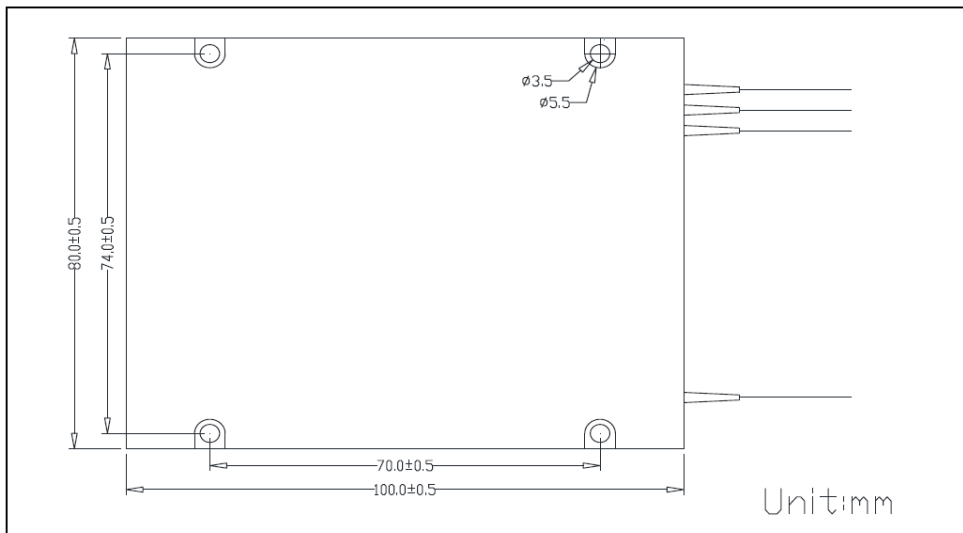
Features

- Low Loss
- High Stability
- High Reliability

Applications

- Display
- Biomedical Imaging
- Full-color Digital Hologram

Dimensions (Unit: mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

LCSM-	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Type	Color 1	Color 2	Color 3	Package Type	Fiber Type	Fiber Length	Connector	
	Tow colors=2 Three colors=3 Four colors=4 Special=0	Red =1 Green =2 Blue =3	Red =1 Green =2 Blue =3	Red =1 Green =2 Blue =3	Standard=1 Special=0	460-HP =1 Special=0	Bare fiber=1 900um tube=3 Special=0	0.5m=1 1.0m=2 1.5 m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC/PC=7 Special=0