

Visible Wavelength Combiner

Description

LightComm's Visible Wavelength Combiners are single mode optical fiber components and modules. They enable any two or three primary colours in the visible wavelength region to be combined or separated.

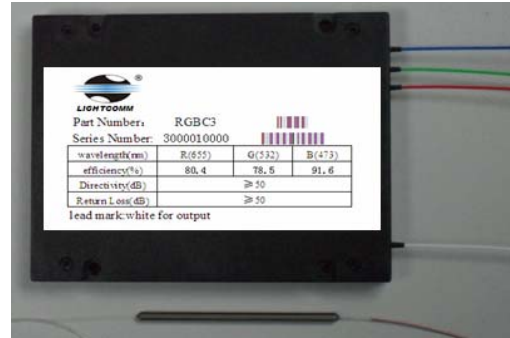
Combiners are available for either 2 or 3 wavelengths: 2 wavelength combiners combine red/green, blue/green or red/blue. 3 wavelength combiners provide full RGB operation; enabling full colour displays.

Key Features

- 2 or 3 color combining or separating
- High power handing
- High stability and reliability

Applications

- Visible and display systems
- Sensors
- Biomedical equipment
- Research



Specifications

Item	Specification
Two wavelength combiner	Red/Green, Red/Blue, Green/Blue ^{note1}
Typical combine efficiency (%)	95% ^{note2}
Minimum combine efficiency (%)	90% ^{note2}
Fiber type	Specialty single mode fiber
Dimensions(Φ×L)(mm)	3×54(bare fiber) 3×60(0.9mm loose tube)
Operating / storage temperature range(°C)	-40~85

Item	Specification	
Three wavelength combiner	655/532/473	
Typical combine efficiency (%)	Red and Green	75% ^{note2}
	blue	90% ^{note2}
Minimum combine efficiency (%)	Red and Green	70% ^{note2}
	blue	85% ^{note2}
Fiber type	Specialty single mode fiber	
Housing box(L×W×H) (mm)	100×80×10	
Operating / storage temperature range(°C)	-40~85	

Note1: Red can be 630,633,655nm, Green can be 532nm, Blue can be 457,473,488nm.

Note2: The combine efficiency may different from the table value due to different wavelengths.

Note3: The above specification is without connector.

Ordering Information

PCOM-xxx-xxx/xxx-x- x-xx/xxx-xx*xx

