

Triplet Fiber Optic Collimators

Triple fiber optic collimators provide the better collimation, smaller spherical aberration, smaller wavefront and smaller angle divergence than double lenses and aspheric lenses. Its wavefront is less than $1/8 \lambda$. Its benefit is the M2 factor is close to 1 (Gauss beam).

▲ broadband antireflective coating, assembled at 630nm, 660nm, 780nm, 1550nm

▲ available focal length: 6mm, 12mm, 15mm

▲ Full-angle divergence $\leq 0.12^\circ$

▲ Fiber interface type FC/PC or FC/APC

▲ Exquisite stainless steel case

We will calibrate the optical collimation for each one, and test the quality of the collimating beam by M2-200S-FW@spiriconM2, The M2 factor should be less than 1.3.

All of the lens in these optic collimators are coated in broadband antireflective coating from 405nm-2um, and the assemble wavelength can be choosed at 405nm, 630nm, 780nm, 980nm, 1330nm, 1550nm.

Triple fiber optic collimators contain High precision optical fiber interface which made of Stainless steel material, so it can provide Superior repeatability.

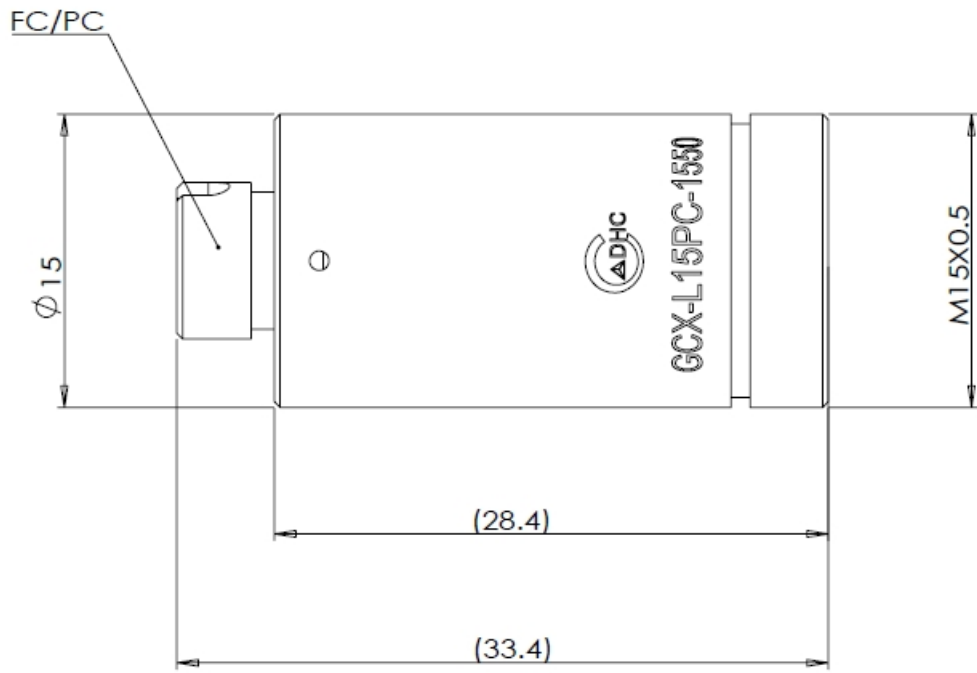
GCX-L15PC-1550

Triple fiber optic collimators provide the better collimation, smaller spherical aberration, smaller wavefront and smaller angle divergence than double lenses and aspheric lenses. Its wavefront is less than $1/8 \lambda$. Its benefit is the M2 factor is close to 1 (Gauss beam), the test of M2 factor is 1.17.

This lens' focal length is 15mm, wavelength is 1550nm (coating wavelength is 1050nm-1550nm), collimation spot diameter is 3.75mm, full angle divergence is 0.038 degrees, interface type is FC/PC.

SPECIFICATIONS	unit	value
Alignment Wavelength	nm	1550
Coating AR	nm	1050-1550
Waist diameter ($1/e^2$) *	mm	3.75
Full-angle divergence	°	0.038
Alignment fiber		P3-1550PM-FC-1
NA		0.14
Damage threshold (pulse)	J/cm ²	10(10HZ 10ns 1064nm)
Fiber interface type		FC/PC
Dimensions		
Length	mm	33.4
Diameter	mm	15





三片式光纤输出准直镜

三片式光纤输出准直镜，提供比双胶合透镜，非球面透镜更好的准直效果，更好的消除球差，更小的发散角，更小的波相差，波相差 $<1/8 \lambda$ 。三片式光纤输出准直镜的优点是 M2 因子接近于 1（高斯光束）。

▲镀宽带增透膜，校准波长为 630nm, 660nm, 780nm, 1550nm

▲可选的有效焦距为 6mm, 12mm, 15mm

▲全发散角 $\leq 0.12^\circ$

▲接口类型为 FC/PC 或者 FC/APC

▲精致的不锈钢外壳。

我们对每个入库的光纤准直镜会单独校准，并用型号为 M2-200S-FW@spiriconM2 因子测试仪测试其 M2 因子值，保证在 1.3 以内。为了得到更好的光束质量，最好用单模保偏光纤进行仔细准直校准。

透镜镀宽带增透膜层，从 405nm-2um，校准波长为单一波长，可选择 405nm, 630nm, 780nm, 980nm, 1330nm, 1550nm，减少透镜表面的剩余反射。

三片式光纤输出准直镜使用精密公差套管的高精密不锈钢接口，可以提供出射的对准重复性，方便用于拆卸和替换光纤。用于 APC 接头版本的接头有一个倾角，这样从光纤中出射的光束就能以垂直于焦平面的方向入射到准直器中。

GCX-L15PC-1550

三片式光纤输出准直镜，提供比双胶合透镜，非球面透镜更好的准直效果，更好的消除球差，更小的发散角，更小的波相差，波相差 $<1/8 \lambda$ 。三片式光纤输出准直镜的优点是 M2 因子接近于 1（高斯光束），实测 M2 因子为 1.17。

这款准直镜焦距 15mm，波长 1550nm（镀膜波长 1050nm-1550nm），准直光斑直径 3.75mm，发散角 0.038° ，接口类型为 FC/PC。

参数说明	单位	值
校准波长	nm	1550
增透膜波长	nm	1050-1550
束腰直径 ($1/e^2$) *	mm	3.75
全角发散角	°	0.038
焦距	mm	15
校准光纤型号		P3-1550PM-FC-1
数值孔径		0.14
损伤阈值 (脉冲)	J/cm ²	10(10HZ 10ns 1064nm)
光纤接口类型		FC/PC



尺寸		
长度	mm	33.6
直径	mm	15

