耐真空 2D 光纤阵列 规格书

Specification for 2D Thermostable Fiber Array

一、技术参数 Technical parameters

项目 Project	参数 Specification	精度 Accuracy
适用波长 Wavelength	190nm-2400nm	
单根光纤通光功率 Power of fingl fiber	≤300W	
光纤排列形状 Fiber arrangement shape	无限制 Unlimited	
线阵光纤阵列中心距 Pitch of line Fiber array	≥50um	±0.0005mm
二维光纤中心距 Pitch of 2D Fiber array	≥80um	±0.001mm
光纤长度 Length of Fiber array	≤100m	±500mm
光纤长度 Length of Fiber array	≤2m	±2mm
光纤数量 Number of Fiber array	300 根*300 根 300Pcs*300Pcs	暗纤率≤1%,精度±3um Dark Fiber Rate ≤ 1%, Accuracy ± 3um
光纤数量 Number of Fiber array	40 根*40 根 40Pcs*40Pcs	暗纤率 0，精度±1um Dark fiber ratio 0, Accuracy ± 1um
无真空要求的阵列端使用温度 Array end service temperature without vacuum requirement	≤800℃	
有真空要求的阵列端使用温度 Operating temperature of array end with vacuum requirement	≤300℃	
漏气度 Air leakage rate	≤1.7*10^{-7}Pa.m^3/S	
耐振动频率范围 0-2000(Hz) Vibration resistance frequency range 0-2000(Hz)	15.8g	三向正弦 Three-directional sine
光轴平行度 Optical axis parallelism	≤5mrad	
光纤阵列研磨角度 Fiber array grinding angle	≤45°	±0.3°

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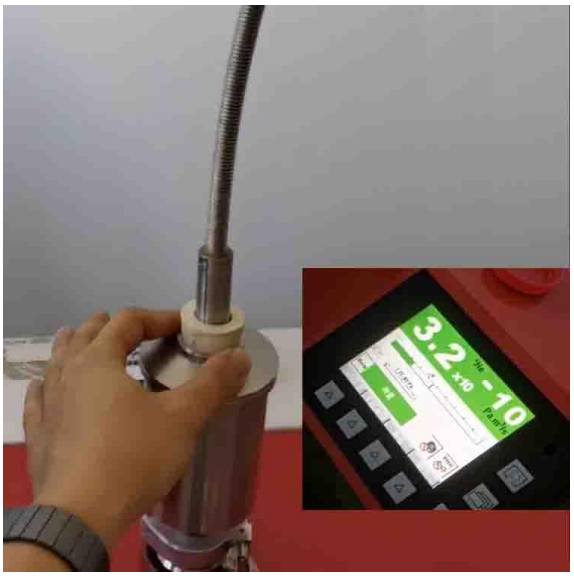
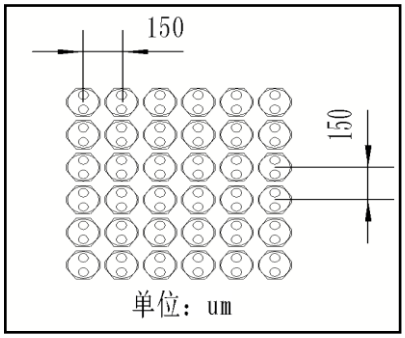
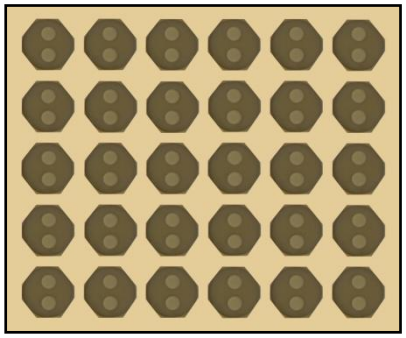
二、标准光纤阵列整体外观 Overall Appearance of Fiber Array

1、标准光纤阵列整体外观照片 Fiber Array Photo

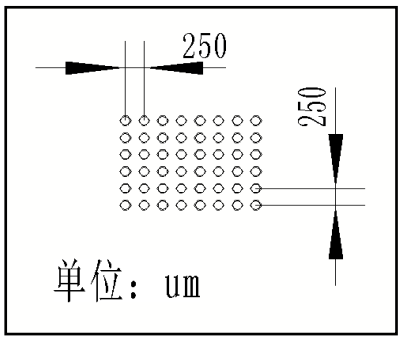


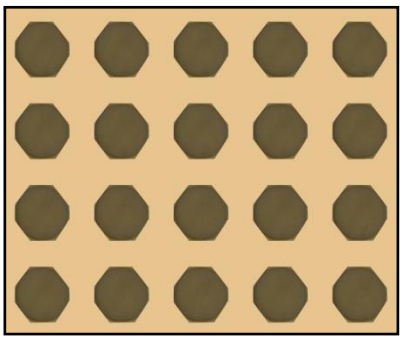
2、光纤排列实例 Examples of Fiber Arrangement





Examples 1：
X=Y=155um
Arrangement accuracy: ±2um
Diameter of fiber： 125um





Examples2
X=Y =250um
Arrangement accuracy ±2um
Diameter of fiber： 125um

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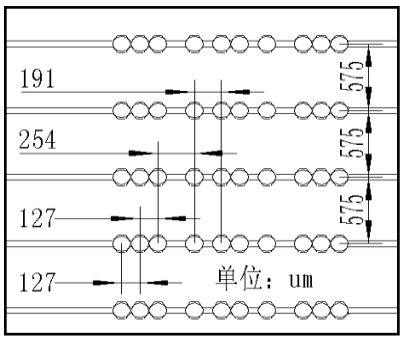
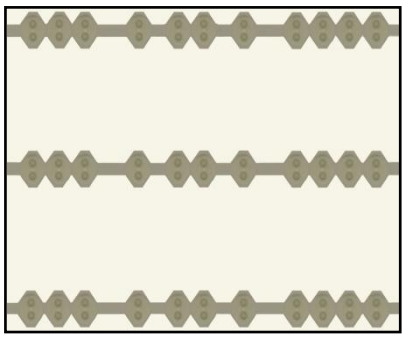
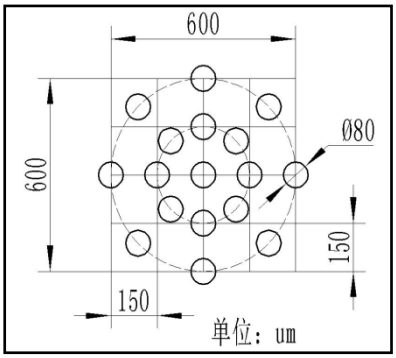
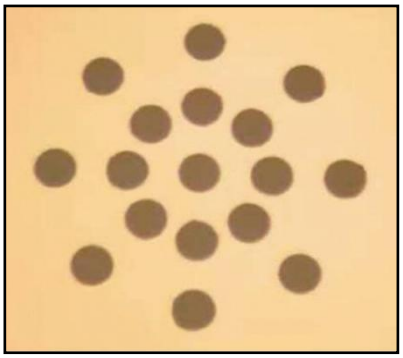


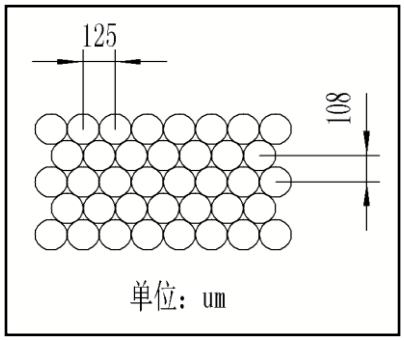


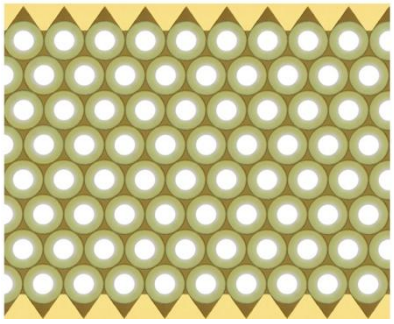
Examples 3：
X≠Y
Arrangement accuracy:±2um
Diameter of fiber：125um



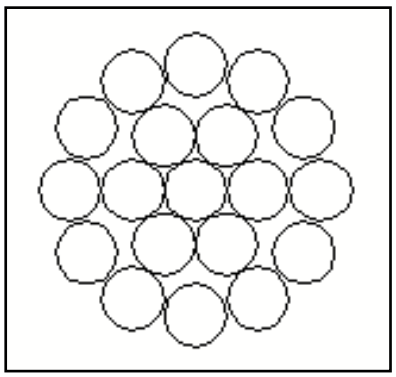


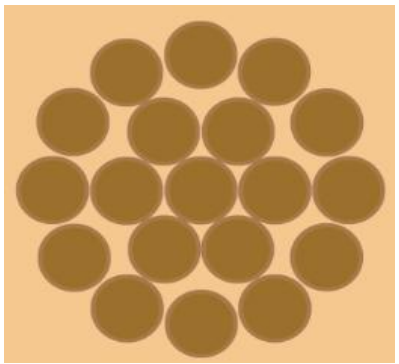
Examples 4：
Circular arrangement
Arrangement accuracy： ±2um
Diameter of fiber：125um





Examples 5：
X=125um，Y=108umum
Arrangement accuracy： ±5um
Diameter of fiber：125um





Examples6：
Arrangement styles：circle

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3、连接器类型 Connector Type

1）FC/PC　FC/APC

2）SMA905

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