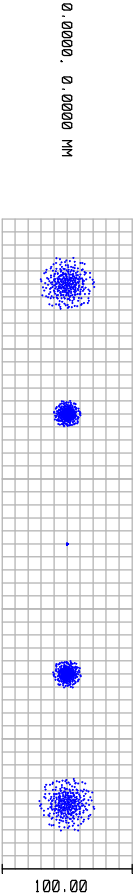


DATE : WED DEC 14 2016  
FILE NAME : 20161102 SINGLE MODE FIBER GRIN LENS 750 HZ.ZMX  
TITLE : 20160909 SINGLE MODE FIBER GRIN LENS.ZMX  
UNITS : MILLIMETERS  
EFL : 1.50707 BFL : -5.66492  
TOTAL TRACK : 12.929  
ELEMENT COUNT : 2  
WORKING F/# : 22.7934  
IMAGE HEIGHT : 0  
ENTR PUP DIA : 0.0994008  
EXIT PUP POS : -0.221603  
ENTR PUP POS : -7.43644  
FIELD TYPE : PARAXIAL IMAGE HEIGHT IN MILLIMETERS  
# X-VALUE Y-VALUE WEIGHT  
1 0.000000 0.000000 1.000000  
WAVELENGTHS IN  $\mu$ m:  
# VALUE WEIGHT  
1 1.330000 1.000000

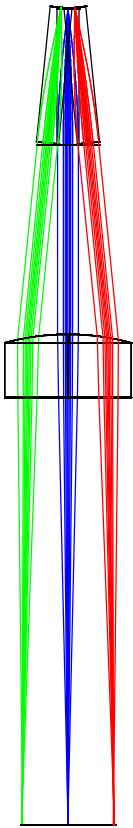
COMMENTS:  
80UM THORLABS FIBER, 0.18NA  
STD GRINTECH 0.2NA  
YMAX = 0.325 MM  
ALPHA MAX = 4.55 DEG  
TSNA = 0.022  
FIR GAP = 4 MM  
WD = 7.1 MM  
FOV = 1.5 MM  
DX = 25 UM  
DOF = 3.4 MM  
NPX = 115 (AIR), 150 (WATER) 23 KPX



THROUGH FOCUS SPOT DIAGRAM  
-1000 -500 0 500 1000  
< - DEFOCUS IN  $\mu$ m ->

20160909 SINGLE MODE FIBER GRIN LENS.ZMX  
WED DEC 14 2016 UNITS ARE  $\mu$ m.  
FIELD : 1  
RMS RADIUS : 0.069  
CEO RADIUS : 0.248  
SCALE BRK : 100  
REFERENCE : CHIEF RAY

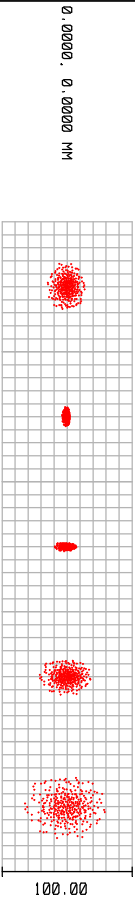
20161102 SINGLE MODE FIBER GRIN LENS 750 HZ.ZMX  
CONFIGURATION 1 OF 3



L.

3D LAYOUT  
20160909 SINGLE MODE FIBER GRIN LENS.ZMX  
WED DEC 14 2016

20161102 SINGLE MODE FIBER GRIN LENS 750 HZ.ZMX  
CONFIGURATIONS 1, 2, 3



THROUGH FOCUS SPOT DIAGRAM  
-1000 -500 0 500 1000  
< - DEFOCUS IN  $\mu$ m ->

20160909 SINGLE MODE FIBER GRIN LENS.ZMX  
WED DEC 14 2016 UNITS ARE  $\mu$ m.  
FIELD : 1  
RMS RADIUS : 3.474  
CEO RADIUS : 9.599  
SCALE BRK : 100  
REFERENCE : CHIEF RAY

20161102 SINGLE MODE FIBER GRIN LENS 750 HZ.ZMX  
CONFIGURATION 3 OF 3