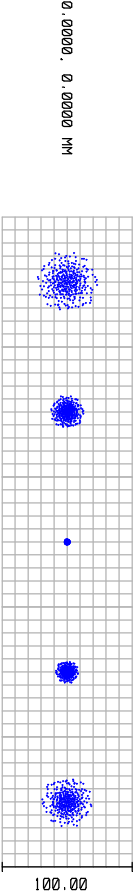


DATE : WED DEC 14 2016
FILE : 20160516 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM, ZMX
TITLE : 20160420 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM
UNITS : MILLIMETERS
EFL : 11.76617 BFL : -7.14946
TOTAL TRACK : 14
ELEMENT COUNT : 22.5613
WORKING F/# : 0
IMAGE HEIGHT : 0.298769
ENTR PUP DIA : -0.816358
ENTR PUP POS :
FIELD TYPE : PARAXIAL IMAGE HEIGHT IN MILLIMETERS
X-VALUE Y-VALUE WEIGHT
1 0.000000 0.000000 1.000000
WAVELENGTHS IN μ 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
ISNR = 0.022
L = 2.5 MM
WD = 7.5 MM
FOV = 1.2 MM (VIGNETED), 1.0 MM (NON VIGNETED)
DX = 25 μ M
DOF = 3.4 MM
NPX = 92 (AIR), 122 (WATER)

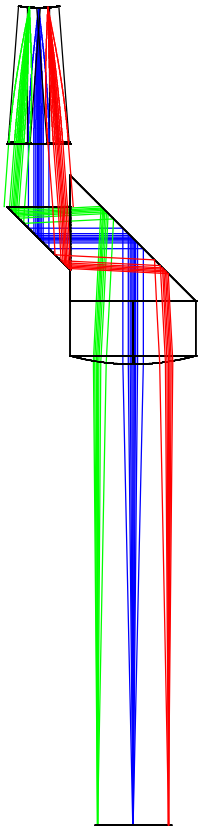


-1000 -500 0 500 1000
<- DEFOCUS IN μ m ->

THROUGH FOCUS SPOT DIAGRAM

20160420 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM
MED DEC 14 2016 UNITS ARE μ m.
FIELD : 1
RMS RADIUS : 1.259
CEO RADIUS : 2.014
SCALE BRK : 100
REFERENCE : CHIEF RAY

20160516 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM, ZMX
CONFIGURATION 1 OF 5

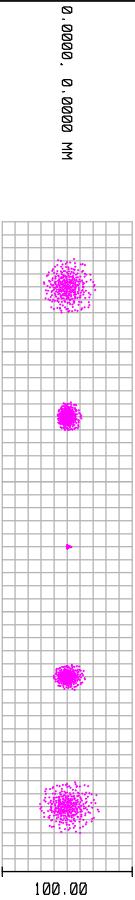


L

3D LAYOUT

20160420 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM
MED DEC 14 2016

20160516 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM, ZMX
CONFIGURATIONS 1, 2, 3



-1000 -500 0 500 1000
<- DEFOCUS IN μ m ->

THROUGH FOCUS SPOT DIAGRAM

20160420 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM
MED DEC 14 2016 UNITS ARE μ m.
FIELD : 1
RMS RADIUS : 0.823
CEO RADIUS : 3.138
SCALE BRK : 100
REFERENCE : CHIEF RAY

20160516 WEIGHT GRINNA 0.2, ISNR 0.022, WD 7.5MM, ZMX
CONFIGURATION 5 OF 5