

CG OF SUSPENDED OFI (LHO-AS BUILT)

Mass Properties

D0900623_AdLIGO_AOS_D0900136_Faraday Isolator Table

Options...

Override Mass Properties... Recalculate

Include hidden bodies/components

Show weld bead mass

Report coordinate values relative to: -- default --

Mass properties of D0900623_AdLIGO_AOS_D0900136_Faraday Isolator Table
 Configuration: LHO SQZ
 Coordinate system: -- default --

Mass = 18.168 kilograms

Volume = 0.005 cubic meters

Surface area = 1.133 square meters

Center of mass: (meters)
 X = -0.002
 Y = 0.046
 Z = 0.000

Principal axes of inertia and principal moments of inertia: (kilograms * square meters)
 Taken at the center of mass.
 lx = (0.999, -0.038, -0.009) Px = 0.063
 ly = (-0.010, -0.020, -1.000) Py = 0.459
 lz = (0.038, 0.999, -0.021) Pz = 0.483

Moments of inertia: (kilograms * square meters)
 Taken at the center of mass and aligned with the output coordinate system
 Lxx = 0.064 Lxy = -0.015 Lxz = -0.003
 Lyx = -0.015 Lyy = 0.482 Lyz = 0.001
 Lzx = -0.003 Lzy = 0.001 Lzz = 0.459

Moments of inertia: (kilograms * square meters)
 Taken at the output coordinate system.
 lxx = 0.123 lxy = -0.017 lxz = -0.003
 lyx = -0.017 lyy = 0.482 lyz = 0.001
 lzx = -0.003 lzy = 0.001 lzz = 0.498

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CG OF SUSPENDED A+ OFI (LHO PROPOSAL)

Mass Properties

D0900623_AdLIGO_AOS_D0900136_Faraday Isolator Table

Options...

Override Mass Properties... Recalculate

Include hidden bodies/components

Show weld bead mass

Report coordinate values relative to: -- default --

Mass properties of D0900623_AdLIGO_AOS_D0900136_Faraday Isolator Table
 Configuration: LHO A+
 Coordinate system: -- default --

Mass = 18.132 kilograms

Total weld mass = 0.000 kilograms

Volume = 314.026 cubic inches

Surface area = 1778.377 square inches

Center of mass: (inches)
 X = -0.078
 Y = 2.049
 Z = 0.064

Principal axes of inertia and principal moments of inertia: (kilograms * square inches)
 Taken at the center of mass.
 lx = (0.999, -0.026, -0.045) Px = 128.453
 ly = (-0.042, 0.117, -0.992) Py = 628.874
 lz = (0.031, 0.993, 0.116) Pz = 648.406

Moments of inertia: (kilograms * square inches)
 Taken at the center of mass and aligned with the output coordinate system
 Lxx = 129.838 Lxy = -13.666 Lxz = -22.675
 Lyx = -13.666 Lyy = 647.782 Lyz = -1.659
 Lzx = -22.675 Lzy = -1.659 Lzz = 628.113

Moments of inertia: (kilograms * square inches)
 Taken at the output coordinate system. (Using positive tensor notation.)
 lxx = 206.005 lxy = -16.579 lxz = -22.765
 lyx = -16.579 lyy = 647.968 lyz = 0.713
 lzx = -22.765 lzy = 0.713 lzz = 628.113

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Addable Masses BOM/allocation

D1300023-1	1lbs	QTY.3
D1200431	250mg	QTY. 2
D0901405	50mg	QTY. 2
D030078	20mg	QTY. 5
D060359-50	50mg	QTY. 3
D060359-100	100mg	QTY. 2

