

Mass properties of challenge
Configuration: Default
Coordinate system: -- default --

Density = 0.001000 grams per cubic millimeter

Mass = 1.162527 grams

Volume = 162.526576 cubic millimeters

Surface area = 1919.374849 square millimeters

Center of mass: (millimeters)

X = 0.000000

Y = 0.000000

Z = 0.000000

Principal axes of inertia and principal moments of inertia: (grams * square millimeters)

Taken at the center of mass.

Ix = (0.000000, 1.000000, 0.000000) Px = 44.880466

Iy = (0.000000, 0.000000, 1.000000) Py = 44.880466

Iz = (1.000000, 0.000000, 0.000000) Pz = 84.846534

Moments of inertia: (grams * square millimeters)

Taken at the center of mass and aligned with the output coordinate system. (Using positive tensor notation.)

Lxx = 84.846534 Lxy = 0.000000 Lxz = 0.000000

Lyx = 0.000000 Lyy = 44.880466 Lyz = 0.000000

Lzx = 0.000000 Lzy = 0.000000 Lzz = 44.880466

Moments of inertia: (grams * square millimeters)

Taken at the output coordinate system. (Using positive tensor notation.)

Ixx = 84.846534 Ixy = 0.000000 Ixz = 0.000000

Iyx = 0.000000 Iyy = 44.880466 Iyz = 0.000000

Izx = 0.000000 Izy = 0.000000 Izz = 44.880466