

Mass properties of R1_Battery_Sim
Configuration: Default
Coordinate system: battery_frame

Density = 2980.2324 kilograms per cubic meter

Mass (user-overridden) = 0.488 kilograms

Volume = 0.00016375 cubic meters

Surface area = 0.0268084 square meters

Center of mass: (meters)

X = 0.00355981

Y = 0

Z = 0.00841821

Principal axes of inertia and principal moments of inertia: (kilograms * square meters)

taken at the center of mass.

Ix = (0.99999051, -3.07e-06, 0.00435703) Px = 0.00016561

Iy = (3.07e-06, 1, 0) Py = 0.0009175

Iz = (-0.00435703, 0, 0.99999051) Pz = 0.00105051

Moments of inertia: (kilograms * square meters)

taken at the center of mass and aligned with the output coordinate system.

Lxx = 0.00016563 Lxy = 0 Lxz = 3.86e-06

lyx = 0 lyy = 0.0009175 lyz = 0

Lzx = 3.86e-06 Lzy = 0 Lzz = 0.00105049

Moments of inertia: (kilograms * square meters)

taken at the output coordinate system.

lxx = 0.00020021 lxy = 0 lxz = 1.848e-05

lyx = 0 lyy = 0.00095252 lyz = 0

lzx = 1.848e-05 lzy = 0 lzz = 0.00105667