

Mass properties of Arm Length  
Configuration: Default  
Coordinate system: -- default --

Density = 0.04 pounds per cubic inch

Mass = 0.42 pounds

Volume = 1.43 cubic inches

Surface area = 28.07 square inches

Center of mass: ( inches )

X = 0.00

Y = 0.00

Z = 1.43

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

taken at the center of mass.

$I_x = ( 0.00, 0.00, 1.00 )$        $P_x = 0.26$

$I_y = ( 0.00, -1.00, 0.00 )$        $P_y = 0.44$

$I_z = ( 1.00, 0.00, 0.00 )$        $P_z = 0.44$

Moments of inertia: ( pounds \* square inches )

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

$L_{xx} = 0.44$   $L_{xy} = 0.00$   $L_{xz} = 0.00$

$L_{yx} = 0.00$   $L_{yy} = 0.44$   $L_{yz} = 0.00$

$L_{zx} = 0.00$   $L_{zy} = 0.00$   $L_{zz} = 0.26$

Moments of inertia: ( pounds \* square inches )

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

$I_{xx} = 1.29$   $I_{xy} = 0.00$   $I_{xz} = 0.00$

$I_{yx} = 0.00$   $I_{yy} = 1.29$   $I_{yz} = 0.00$

$I_{zx} = 0.00$   $I_{zy} = 0.00$   $I_{zz} = 0.26$