

MASS PROPERTIES OF THE PART BOTTOM

VOLUME = 1.0665610e+00 INCH^3
SURFACE AREA = 3.2952560e+01 INCH^2
DENSITY = 9.7500000e-02 POUND / INCH^3
MASS = 1.0398970e-01 POUND

CENTER OF GRAVITY with respect to _BOTTOM coordinate frame:
X Y Z 1.8804919e-01 2.5776022e-01 0.0000000e+00 INCH

INERTIA with respect to _BOTTOM coordinate frame: (POUND * INCH^2)

INERTIA TENSOR:

Ixx Ixy Ixz 1.0829991e-01 -8.5294766e-03 0.0000000e+00
Iyx Iyy Iyz -8.5294766e-03 2.2426027e-01 0.0000000e+00
Izx Izy Izz 0.0000000e+00 0.0000000e+00 1.4576964e-01

INERTIA at CENTER OF GRAVITY with respect to _BOTTOM coordinate frame:

(POUND * INCH^2)

INERTIA TENSOR:

Ixx Ixy Ixz 1.0139080e-01 -3.4889293e-03 0.0000000e+00
Iyx Iyy Iyz -3.4889293e-03 2.2058293e-01 0.0000000e+00
Izx Izy Izz 0.0000000e+00 0.0000000e+00 1.3518320e-01

PRINCIPAL MOMENTS OF INERTIA: (POUND * INCH^2)
I1 I2 I3 1.0128876e-01 1.3518320e-01 2.2068497e-01

ROTATION MATRIX from _BOTTOM orientation to PRINCIPAL AXES:

0.99957 0.00000 0.02923
0.02923 0.00000 -0.99957
0.00000 1.00000 0.00000

ROTATION ANGLES from _BOTTOM orientation to PRINCIPAL AXES (degrees):

angles about x y z 90.000 1.675 0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:
R1 R2 R3 9.8692800e-01 1.1401610e+00 1.4567708e+00 INCH

MASS PROPERTIES OF THE PART TOP

VOLUME = 6.2198739e-01 INCH³
SURFACE AREA = 2.1169509e+01 INCH²
DENSITY = 9.7500000e-02 POUND / INCH³
MASS = 6.0643770e-02 POUND

CENTER OF GRAVITY with respect to _TOP coordinate frame:

X Y Z 1.3924490e+00 -1.3750000e+00 -8.2404577e-01 INCH

INERTIA with respect to _TOP coordinate frame: (POUND * INCH²)

INERTIA TENSOR:

Ixx Ixy Ixz 1.9164383e-01 1.1610961e-01 7.6371003e-02
Iyx Iyy Iyz 1.1610961e-01 2.3469519e-01 -6.8713208e-02
Izx Izy Izz 7.6371003e-02 -6.8713208e-02 3.3839140e-01

INERTIA at CENTER OF GRAVITY with respect to _TOP coordinate frame:

(POUND * INCH²)

INERTIA TENSOR:

Ixx Ixy Ixz 3.5808965e-02 0.0000000e+00 6.7858138e-03
Iyx Iyy Iyz 0.0000000e+00 7.5931889e-02 0.0000000e+00
Izx Izy Izz 6.7858138e-03 0.0000000e+00 1.0615372e-01

PRINCIPAL MOMENTS OF INERTIA: (POUND * INCH²)

I1 I2 I3 3.5160351e-02 7.5931889e-02 1.0680233e-01

ROTATION MATRIX from _TOP orientation to PRINCIPAL AXES:

0.99546 0.00000 0.09515
0.00000 1.00000 0.00000
-0.09515 0.00000 0.99546

ROTATION ANGLES from _TOP orientation to PRINCIPAL AXES (degrees):
angles about x y z 0.000 5.460 0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 7.6143618e-01 1.1189715e+00 1.3270805e+00 INCH