

MASS PROPERTIES OF THE PART BOTTOM

VOLUME = 1.3322041e+00 INCH^3
SURFACE AREA = 3.7202542e+01 INCH^2
DENSITY = 9.7500000e-02 POUND / INCH^3
MASS = 1.2988990e-01 POUND

CENTER OF GRAVITY with respect to _BOTTOM coordinate frame:
X Y Z 1.3630538e-01 2.9272495e-01 0.0000000e+00 INCH

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

INERTIA TENSOR:

Ixx Ixy Ixz 1.5946437e-01 -7.7554289e-03 0.0000000e+00
Iyx Iyy Iyz -7.7554289e-03 2.8462040e-01 0.0000000e+00
Izx Izy Izz 0.0000000e+00 0.0000000e+00 1.7204506e-01

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

(POUND * INCH^2)

INERTIA TENSOR:

Ixx Ixy Ixz 1.4833438e-01 -2.5728240e-03 0.0000000e+00
Iyx Iyy Iyz -2.5728240e-03 2.8220716e-01 0.0000000e+00
Izx Izy Izz 0.0000000e+00 0.0000000e+00 1.5850182e-01

PRINCIPAL MOMENTS OF INERTIA: (POUND * INCH^2)

I1 I2 I3 1.4828495e-01 1.5850182e-01 2.8225659e-01

ROTATION MATRIX from _BOTTOM orientation to PRINCIPAL AXES:

0.99982 0.00000 0.01921
0.01921 0.00000 -0.99982
0.00000 1.00000 0.00000

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

angles about x y z 90.000 1.101 0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 1.0684664e+00 1.1046621e+00 1.4741252e+00 INCH

MASS PROPERTIES OF THE PART TOP

VOLUME = 6.8781491e-01 INCH^3
SURFACE AREA = 2.3299016e+01 INCH^2
DENSITY = 9.7500000e-02 POUND / INCH^3
MASS = 6.7061954e-02 POUND

CENTER OF GRAVITY with respect to _TOP coordinate frame:

X Y Z 1.4213935e+00 -1.3750000e+00 -8.3191315e-01 INCH

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

INERTIA TENSOR:

Ixx Ixy Ixz 2.1961875e-01 1.3106696e-01 8.6229257e-02
Iyx Iyy Iyz 1.3106696e-01 2.6285637e-01 -7.6710867e-02
Izx Izy Izz 8.6229257e-02 -7.6710867e-02 3.8398096e-01

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

(POUND * INCH^2)

INERTIA TENSOR:

Ixx Ixy Ixz 4.6417543e-02 0.0000000e+00 6.9301076e-03
Iyx Iyy Iyz 0.0000000e+00 8.0954905e-02 0.0000000e+00
Izx Izy Izz 6.9301076e-03 0.0000000e+00 1.2170269e-01

PRINCIPAL MOMENTS OF INERTIA: (POUND * INCH^2)

I1 I2 I3 4.5784932e-02 8.0954905e-02 1.2233530e-01

ROTATION MATRIX from _TOP orientation to PRINCIPAL AXES:

0.99586 0.00000 0.09091
0.00000 1.00000 0.00000
-0.09091 0.00000 0.99586

ROTATION ANGLES from _TOP orientation to PRINCIPAL AXES (degrees):
angles about x y z 0.000 5.216 0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 8.2627228e-01 1.0987110e+00 1.3506344e+00 INCH