

MASS PROPERTIES OF THE PART BOTTOM

VOLUME = 1.2120682e+00 INCH^3
SURFACE AREA = 3.6554173e+01 INCH^2
DENSITY = 9.7500000e-02 POUND / INCH^3
MASS = 1.1817665e-01 POUND

CENTER OF GRAVITY with respect to _BOTTOM coordinate frame:
X Y Z 1.3648640e-01 2.5262675e-01 0.0000000e+00 INCH

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

INERTIA TENSOR:

Ixx Ixy Ixz 1.3635377e-01 -7.1186992e-03 0.0000000e+00
Iyx Iyy Iyz -7.1186992e-03 2.6928497e-01 0.0000000e+00
Izx Izy Izz 0.0000000e+00 0.0000000e+00 1.6615888e-01

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

(POUND *

INCH^2)

INERTIA TENSOR:

Ixx Ixy Ixz 1.2881170e-01 -3.0439546e-03 0.0000000e+00
Iyx Iyy Iyz -3.0439546e-03 2.6708351e-01 0.0000000e+00
Izx Izy Izz 0.0000000e+00 0.0000000e+00 1.5641535e-01

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

I1 I2 I3 1.2874473e-01 1.5641535e-01 2.6715049e-01

ROTATION MATRIX from _BOTTOM orientation to PRINCIPAL AXES:

0.99976 0.00000 0.02200
0.02200 0.00000 -0.99976
0.00000 1.00000 0.00000

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

angles about x y z 90.000 1.261 0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 1.0437558e+00 1.1504662e+00 1.5035302e+00 INCH

MASS PROPERTIES OF THE PART TOP

VOLUME = 6.3468270e-01 INCH^3
SURFACE AREA = 2.1607009e+01 INCH^2
DENSITY = 9.7500000e-02 POUND / INCH^3
MASS = 6.1881563e-02 POUND

CENTER OF GRAVITY with respect to _TOP coordinate frame:

X Y Z 1.3761844e+00 -1.4375000e+00 -8.2056473e-01 INCH

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

INERTIA TENSOR:

Ixx Ixy Ixz 2.0785847e-01 1.2241813e-01 7.7010951e-02
Iyx Iyy Iyz 1.2241813e-01 2.3736022e-01 -7.2993128e-02
Izx Izy Izz 7.7010951e-02 -7.2993128e-02 3.5600574e-01

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

(POUND * INCH^2)

INERTIA TENSOR:

Ixx Ixy Ixz 3.8319522e-02 0.0000000e+00 7.1312969e-03
Iyx Iyy Iyz 0.0000000e+00 7.8497252e-02 0.0000000e+00
Izx Izy Izz 7.1312969e-03 0.0000000e+00 1.1093682e-01

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

I1 I2 I3 3.7625828e-02 7.8497252e-02 1.1163052e-01

ROTATION MATRIX from _TOP orientation to PRINCIPAL AXES:

0.99530 0.00000 0.09682
0.00000 1.00000 0.00000
-0.09682 0.00000 0.99530

ROTATION ANGLES from _TOP orientation to PRINCIPAL AXES (degrees):
angles about x y z 0.000 5.556 0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 7.7976259e-01 1.1262806e+00 1.3431077e+00 INCH