MASS PROPERTIES OF THE PART BOTTOM

VOLUME = 1.2670969e+00 INCH^3
SURFACE AREA = 3.7067306e+01 INCH^2
DENSITY = 9.7500000e-02 POUND / INCH^3
MASS = 1.2354195e-01 POUND

CENTER OF GRAVITY with respect to _BOTTOM coordinate frame:

X Y Z	-3.8049080e-03	2.8643678e-01	0.0000000e+00	INCH

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

INERTIA TENSOR:

Ixx Ixy Ixz	1.1035656e-01	2.4655975e-04	0.0000000e+00
Iyx Iyy Iyz	2.4655975e-04	2.9301739e-01	0.0000000e+00
Izx Izy Izz	0.0000000e+00	0.0000000e+00	2.2296487e-01

INERTIA at CENTER OF GRAVITY with respect to _BOTTOM coordinate frame: (POUND * INCH^2)

INERTIA TENSOR:

Ixx Ixy Ixz	1.0022043e-01	1.1191563e-04	0.0000000e+00
Iyx Iyy Iyz	1.1191563e-04	2.9301561e-01	0.0000000e+00
Izx Izy Izz	0.0000000e+00	0.0000000e+00	2.1282695e-01

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

I1 I2 I3	1.0022037e-01	2.1282695e-01	2.9301567e-01

ROTATION MATRIX from _BOTTOM orientation to PRINCIPAL AXES:

1.00000	0.00000	-0.00058
-0.00058	0.00000	-1.00000
0.00000	1.00000	0.00000

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

angles about x y z	90.000	0.000	0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3	9.0068053e-01	1.3125205e+00	1.5400620e+00	INCH

MASS PROPERTIES OF THE PART TOP

VOLUME = 5.2470167e-01 INCH^3
SURFACE AREA = 1.7631560e+01 INCH^2
DENSITY = 9.7500000e-02 POUND / INCH^3
MASS = 5.1158413e-02 POUND

CENTER OF GRAVITY with respect to _TOP coordinate frame:

X	Y	Z	0.0000000e+00	3.1250000e-02	1.1250000e+00 INCH

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

INERTIA TENSOR:

Ixx	Ixy	Ixz	8.6263140e-02	0.0000000e+00	0.0000000e+00
Iyx	Iyy	Iyz	0.0000000e+00	1.4568847e-01	-1.7985380e-03
Izx	Izy	Izz	0.0000000e+00	-1.7985380e-03	5.9558556e-02

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

(POUND * INCH^2)

INERTIA TENSOR:

Ixx	Ixy	Ixz	2.1465815e-02	0.0000000e+00	0.0000000e+00
Iyx	Iyy	Iyz	0.0000000e+00	8.0941104e-02	0.0000000e+00
Izx	Izy	Izz	0.0000000e+00	0.0000000e+00	5.9508596e-02

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

I1	I2	I3	2.1465815e-02	5.9508596e-02	8.0941104e-02

ROTATION MATRIX from _TOP orientation to PRINCIPAL AXES:

1.00000	0.00000	0.00000
0.00000	0.00000	-1.00000
0.00000	1.00000	0.00000

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

angles about	x	y	z	90.000	0.000	0.000

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1	R2	R3	6.4776153e-01	1.0785277e+00	1.2578418e+00	INCH