VOLUME = 6.6616129e+05 MM^3

SURFACE AREA = 2.0311824e+05 MM^2

AVERAGE DENSITY = 2.0748092e-06 KILOGRAM / MM^3

MASS = 1.3821576e+00 KILOGRAM

CENTER OF GRAVITY with respect to TOF\_ROTATION coordinate frame:

X Y Z 4.7324138e+01 3.1235337e+00 -3.1691096e+01 MM

INERTIA with respect to TOF\_ROTATION coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 4.6300566e+03 -1.3475733e+02 1.9456839e+03

Iyx Iyy Iyz -1.3475733e+02 6.7256599e+03 -2.8010047e+00

Izx Izy Izz 1.9456839e+03 -2.8010047e+00 4.9934100e+03

INERTIA at CENTER OF GRAVITY with respect to TOF\_ROTATION coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 3.2284354e+03 6.9551181e+01 -1.2721217e+02

Iyx Iyy Iyz 6.9551181e+01 2.2420795e+03 -1.3961831e+02

Izx Izy Izz -1.2721217e+02 -1.3961831e+02 1.8844809e+03

PRINCIPAL MOMENTS OF INERTIA: (KILOGRAM \* MM^2)

I1 I2 I3 1.8294867e+03 2.2783147e+03 3.2471945e+03

ROTATION MATRIX from TOF\_ROTATION orientation to PRINCIPAL AXES:

0.07088 -0.10959 -0.99145

0.30899 0.94747 -0.08264

0.94842 -0.30049 0.10102

ROTATION ANGLES from TOF\_ROTATION orientation to PRINCIPAL AXES (degrees):

angles about x y z 39.284 -82.501 57.106

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 3.6381940e+01 4.0600191e+01 4.8470263e+01 MM

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MASS PROPERTIES OF COMPONENTS OF THE ASSEMBLY

(in assembly units and the TOF\_ROTATION coordinate frame)

DENSITY MASS C.G.: X Y Z

PH0001A0 MATERIAL: UNKNOWN

2.07481e-06 1.38216e+00 4.73241e+01 3.12353e+00 -3.16911e+01