VOLUME = 5.7331686e+05 MM^3

SURFACE AREA = 4.0558385e+05 MM^2

AVERAGE DENSITY = 4.0665987e-06 KILOGRAM / MM^3

MASS = 2.3314496e+00 KILOGRAM

CENTER OF GRAVITY with respect to FR\_HIP\_YAW coordinate frame:

X Y Z 1.3809158e-02 -3.6754649e+01 -5.7843523e+01 MM

INERTIA with respect to FR\_HIP\_YAW coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 1.6635530e+04 8.2880859e+00 9.9307094e+00

Iyx Iyy Iyz 8.2880859e+00 1.0506020e+04 -5.2342879e+03

Izx Izy Izz 9.9307094e+00 -5.2342879e+03 8.6038798e+03

INERTIA at CENTER OF GRAVITY with respect to FR\_HIP\_YAW coordinate frame: (KILOGRAM \* MM^2)

INERTIA TENSOR:

Ixx Ixy Ixz 5.6852308e+03 7.1047569e+00 8.0684166e+00

Iyx Iyy Iyz 7.1047569e+00 2.7052853e+03 -2.7758320e+02

Izx Izy Izz 8.0684166e+00 -2.7758320e+02 5.4543143e+03

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

I1 I2 I3 2.6775158e+03 5.4817997e+03 5.6855149e+03

ROTATION MATRIX from FR\_HIP\_YAW orientation to PRINCIPAL AXES:

-0.00262 -0.03596 0.99935

0.99504 -0.09951 -0.00097

0.09948 0.99439 0.03605

ROTATION ANGLES from FR\_HIP\_YAW orientation to PRINCIPAL AXES (degrees):

angles about x y z 1.549 87.934 94.162

RADII OF GYRATION with respect to PRINCIPAL AXES:

R1 R2 R3 3.3888552e+01 4.8489596e+01 4.9382365e+01 MM

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MASS PROPERTIES OF COMPONENTS OF THE ASSEMBLY

(in assembly units and the FR\_HIP\_YAW coordinate frame)

DENSITY MASS C.G.: X Y Z

PH0002 MATERIAL: UNKNOWN

4.06660e-06 2.33145e+00 1.38092e-02 -3.67546e+01 -5.78435e+01