



VIEW1  
SCALE 1 : 1

## Retro Frame Brace Part #5354

Alloy: 6063-T6

Area = 1.426 in<sup>2</sup>

Perimeter = 13.591 in

Centroid, with respect to Sketch Origin(in)

X = 1.704

Y = 1.496

Inertia with respect to Sketch Origin(in):

Inertia Tensor(in<sup>4</sup>)

I<sub>xx</sub> = 4.252

I<sub>xy</sub> = 2.732

I<sub>yx</sub> = 2.732

I<sub>yy</sub> = 5.135

Polar Moment of Inertia = 9.387 in<sup>4</sup>

Area Moments of Inertia with respect to Principal Axes(in<sup>4</sup>):

I<sub>x</sub> = 1.931

I<sub>y</sub> = 0.121

Polar Moment of Inertia = 2.053 in<sup>4</sup>

Section Modulus with respect to Principal Axes (in<sup>3</sup>)

S<sub>x</sub> = 1.291

S<sub>y</sub> = 0.071

Rotation Angle from projected Sketch Origin to Principal Axes(degrees):

About z axis = 43.92

Radii of Gyration with respect to Principal Axes(in):

R<sub>1</sub> = 1.164

R<sub>2</sub> = 0.292

Project Name:	Sign Company:	Date:	Revision:	Sheet:	Size:	Drawing By:
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