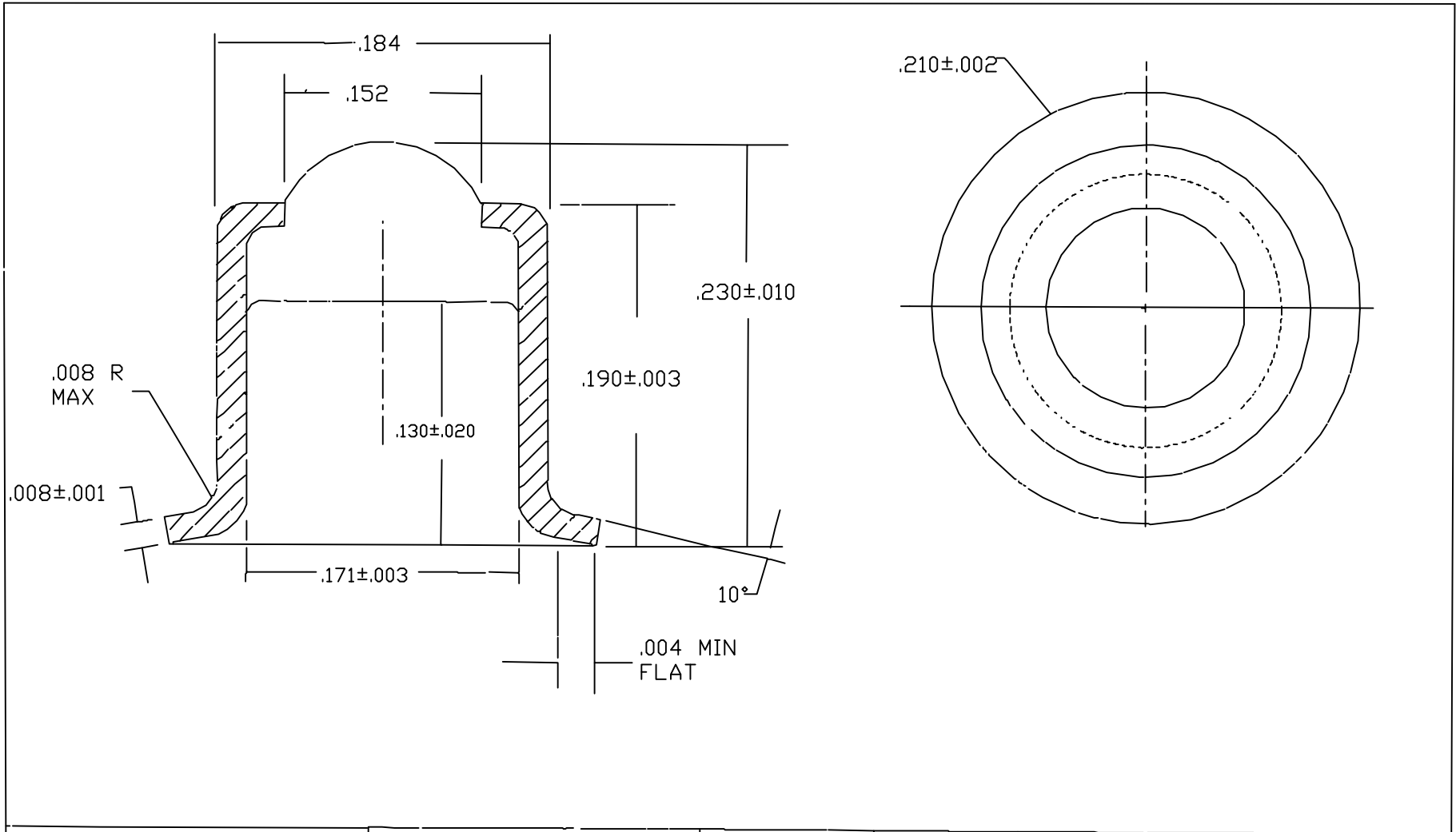


# SSM P/N CAN01810W



REVISION RECORD		MATERIAL: KOVAR ASTM F-15 7052 CLEAR	TOLERANCES		TITLE LENS CAN
A	ORIGINAL		12.11.86	.XX±.02	
B	REDRAW ON CAD	10.25.01	ANGLES ±½ DEG		PART NO. 04000-004



# Corning® Glass Material Properties

Glass Type: Borosilicate

Corning Code: 7052



*Compatible with  
Kovar or Kovar-  
like alloys;  
thermal shock  
resistance*

	Metric	English
<b>Mechanical</b>		
Density	2.27 g/cm <sup>3</sup>	141.7 lb/ft <sup>3</sup>
Young's Modulus	5.76 x 10 <sup>3</sup> kg/mm <sup>2</sup>	8.2 x 10 <sup>6</sup> psi
Poisson's Ratio	0.22	
Shear Modulus	2.39 x 10 <sup>3</sup> kg/mm <sup>2</sup>	3.4 x 10 <sup>6</sup> psi
Knoop Hardness (KNH <sub>100</sub> )	403	
<b>Viscosity</b>		
Working Point (10 <sup>4</sup> poise)	1128 °C	2062 °F
Softening Point (10 <sup>7.6</sup> poise)	712 °C	1314 °F
Annealing Point (10 <sup>13</sup> poise)	484 °C	903 °F
Strain Point (10 <sup>14</sup> poise)	440 °C	824 °F
<b>Thermal</b>		
Coefficient of Expansion (0 °C - 300 °C)	47.0 x 10 <sup>-7</sup> / °C	26.1 x 10 <sup>-7</sup> / °F
(25 °C to set point 679 °C)	53.1 x 10 <sup>-7</sup> / °C	29.5 x 10 <sup>-7</sup> / °F
<b>Optical</b>		
Refractive Index (589.3 nm)	1.484	
<b>Electrical</b>		
Log <sub>10</sub> Volume Resistivity @ 250 °C	9.2 ohm-cm	
Log <sub>10</sub> Volume Resistivity @ 250 °C	7.4 ohm-cm	
Dielectric Constant @ 20 °C, 1 MHz	5.1	
Loss Tangent @ 20 °C, 1 MHz	0.15%	

Available in US Standard Mesh 16 through 326 with a minimum order quantity of 100 lbs.