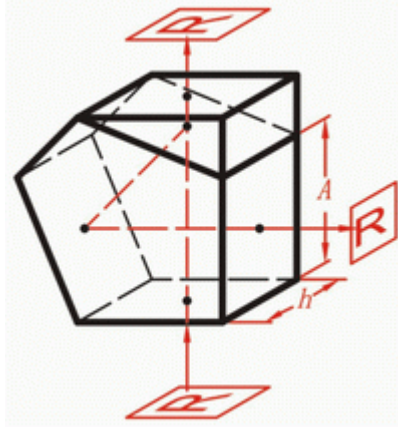


## Beamsplitter Penta Prism



By adding a wedge and with partial reflective coating on surface S1, it can be used as Beamsplitter, which we named as Beamsplitter Penta Prism. Transmission/ Reflection (T/R) ratio of 20/80, 50/50 or others for Beamsplitter Penta Prism is available upon request.

### Specification:

Material.....BK7 grade A optical glass

Dimension Tolerance..... $\pm 0.2\text{mm}$

90°,180° Deviation Tolerance.....see table

Flatness.....inclined surface: $\lambda/8$ ,other: $\lambda/4$  @632.8nm

Reflectivity..... $R > 95\%$  @630~680nm

Surface Quality.....60-40 scratch and dig

Beamsplitter Ratio.....T/R:20/80 $\pm 5\%$ @630-680nm

Chamfer..... $< 0.5\text{mm} \times 45^\circ$

### Coating:

①Entrance & Exit Surfaces: AR coating, $R_{\text{avg}} < 0.5\%$  @630~680nm

②Reflecting Surface: Enhanced Aluminum with black paint, $R_{\text{avg}} > 85\%$  @630~680nm

P/N	size(A×h)	deviation
20301	6×5.8	<60"
20302	6×5.8	<30"
20303	6×5.8	<10"
20304	6×5.8	<5"
20305	7×6	<60"
20306	7×6	<30"
20307	7×6	<10"
20308	7×6	<5"
20309	8×8	<60"
20310	8×8	<30"

P/N	size(A×h)	deviation
20311	8×8	<10"
20312	8×8	<5"
20313	10×10	<60"
20314	10×10	<30"
20315	10×10	<10"
20316	10×10	<5"
20317	10×10	<1"

- Dimension unit:mm
- Other sizes and coatings are available upon request.