

BEAMSPLITTER PENTA PRISMS

Beamsplitter Penta prisms is made of a wedge and a penta prisms. Wedge have partial reflective coating on surfaces S1. Penta prisms can be used as beamsplitter.

Transmission/Reflection(T/R) ratio of 20/80,50/50 or others for beamsplitters Penta Prism is available upon request.

Antireflection coated entrance and exit faces are also available.

Standard Specifications:

Optical Material:	BK7 grade A optical glass
Dimension Tolerance:	± 0.2mm
Clear Aperture:	>80%
90° Deviation Tolerance:	
Standard Series:	< 30 arc seconds
Precision Series:	< 10 arc seconds
Flatness:	
Standard Series:	lambda/2 at 632.8nm
Precision Series:	lambda/4 at 632.8nm
Surface Quality:	40-20 scratch and dig
Bevel:	<0.25mm X 45°
Coating:	20%/80%±5% from 630-680nm

Standard BK7 Beamsplitter Penta Prisms

Size(mm)	Material	1min.deviation	30sec.deviation	10sec.deviation
		Product Number	Product Number	Product Number
A=B=7x6	BK7	UQT-BPPB0101	UQT-BPPB0201	UQT-BPPB0301
A=B=10x10	BK7	UQT-BPPB0102	UQT-BPPB0202	UQT-BPPB0302
A=B=15x15	BK7	UQT-BPPB0103	UQT-BPPB0203	UQT-BPPB0303
A=B=20x20	BK7	UQT-BPPB0104	UQT-BPPB0204	UQT-BPPB0304
A=B=25X25	BK7	UQT-BPPB0105	UQT-BPPB0205	UQT-BPPB0305

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

NOTES!

- ➔ Every edge of these prisms is chamfered (beveled) for chipping prevention. The dimensions of these prisms are values not including chamfer.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.