

# Advanced Photon Source

## Survey & Alignment Group

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# L C L S

### First Article Interface Plate QC

all dimensions expressed in millimeters unless otherwise noted

#### Upstream Interface Plate (Double Cam)

ACCEPT

REJECT

Drawing # L1430802-200011-04

Flatness of Datum A (the cam actuator mounting surfaces on Cam Block "A" and Cam Block "B"). (0.02)	X	
Perpendicularity of Datum B (the outer edge of the double cam actuator mounting surface on Cam Block "A") to Datum A. (0.02)	X	
Parallelism of the inner edge of the double cam actuator mounting surface on Cam Block "A" to Datum B. (0.02)	X	
Parallelism of the inner edge of the double cam actuator mounting surface on Cam Block "B" to Datum B. (0.02)	X	
Parallelism of the outer edge of the double cam actuator mounting surface on Cam Block "B" to Datum B. (0.02)	X	
Width of single cam mover mounting surface on Cam Block "B". (142.01 +0.02/-0.00)	X	
Width of double cam mover mounting surface on Cam Block "A". (254.00 +0.02/-0.00)	X	
Separation the outer edge of single cam mover mounting surface on Cam Block "B" from the outer edge of double cam mover mounting surface on Cam Block "A." (685.42)	X	

**Downstream Interface Plate (Single Cam)**

ACCEPT	REJECT
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Drawing # L1430802-200021-04

Flatness of Datum A, the two single cam actuator mounting surfaces on Cam Block "C." (0.02)	X	
Perpendicularity of Datum B (the outer edge of the single cam actuator mounting surface on Cam Block "C") to Datum A. (0.02)	X	
Parallelism of the inner edge of the single cam actuator mounting surface on Cam Block "C" to Datum B. (0.02)	X	
Parallelism of the inner edge of the single cam actuator mounting surface on Cam Block "D" to Datum B. (0.02)	X	
Parallelism of the outer edge of the single cam actuator mounting surface on Cam Block "D" to Datum B. (0.02)	X	
Width of each single cam mover mounting surface on the two Cam Blocks "C" and "D"(142.01 +0.02/-0.00)	X	
Separation of inner edge of the single cam mover mounting surface on Cam Block "C" from the inner edge of the single cam mover mounting surface on Cam Block "D." (457.43)	X	