

NOTES

- DESIGN WAVELENGTH: 1550 nm
- TRANSMITTED BEAM DEVIATION: ± 5 arcmin
- CLEAR APERTURE: $\varnothing 10$ mm

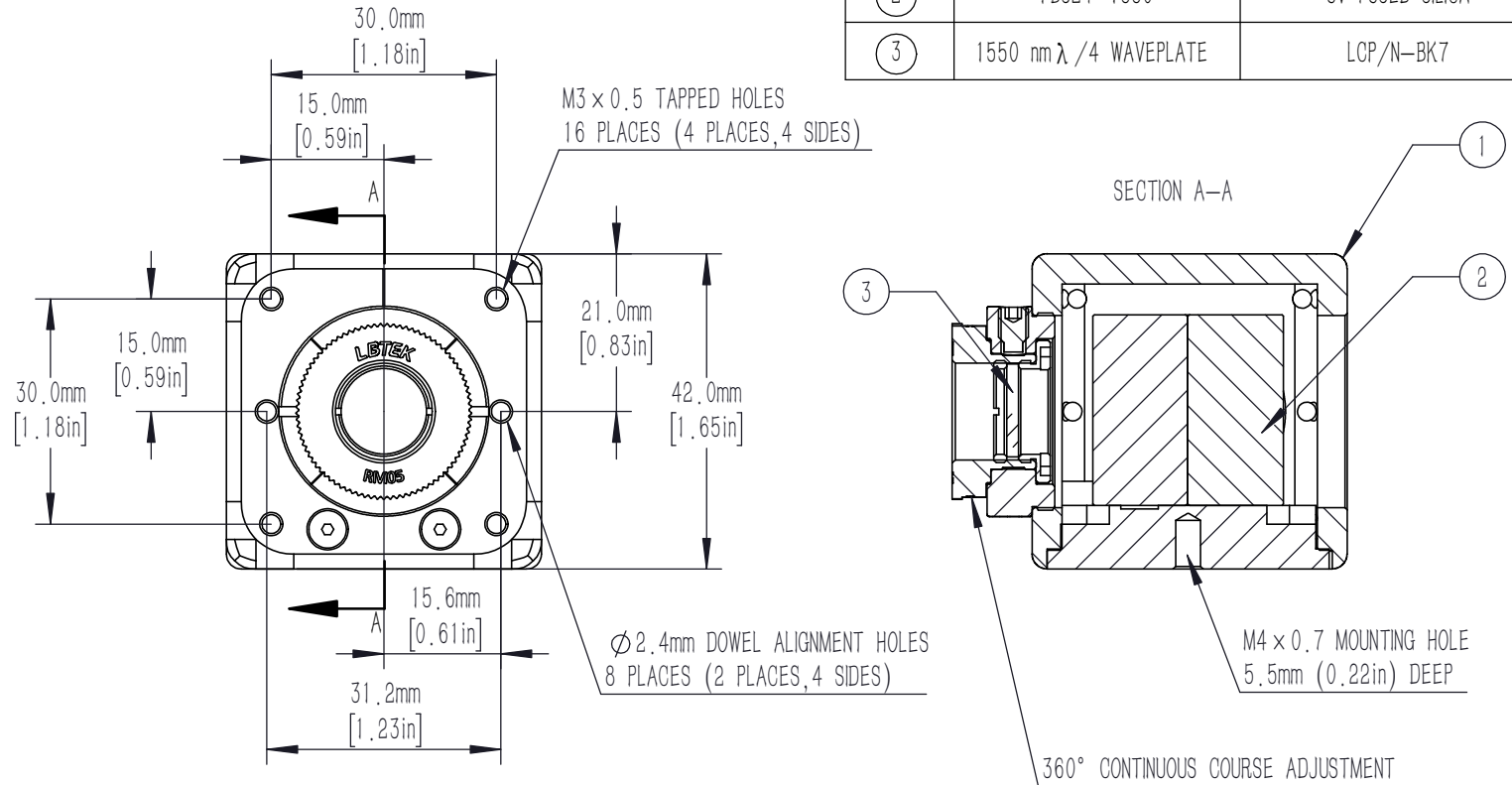
BEAMSPLITTER:

- SURFACE QUALITY: 20/10(S/D)
- EXTINGTION RATIO: $T_p/T_s > 2000:1$
- WAVEFRONT ERROR(RMS): $< \lambda/4 @ 632.8$ nm
- COATING(ALL 4 OUTER OPTICAL SURFACES):
V Coating@1550 nm, Rabs: $< 0.25\%$, 0° AOI

WAVEPLATE

- SURFACE QUALITY: 40/20(S/D)
- DELAY: $\lambda/4$
- DELAY TOLERANCE: $\pm \lambda/100$
- WAVEFRONT ERROR(RMS): $< \lambda/4 @ 632.8$ nm
- AR COATING: $R_{avg} < 0.8\% @ 700-1700$ nm

NUMBER	PART DESCRIPTION	MATERIAL
①	MECHANICAL HOUSING	BLACK ANODIZED ALUMINUM
②	PBS24-1550	UV FUSED SILICA
③	1550 nm $\lambda/4$ WAVEPLATE	LCP/N-BK7



DRAWING PROJECTION				<h1 style="color: red; margin: 0;">LBTEK</h1>			
	NAME	DATE	VCPBS24-1550				
DRAWN	LZHOU	Aug. /5th/24	VARIABLE CIRCULAR POLARIZER @1550 nm				
APPROVAL	WCHENG	Aug. /5th/24	MATERIAL	WEIGHT	SCALE	REV	
FOR INFORMATION ONLY NOT FOR MANUFACTURING PURPOSES			LCP/N-BK7 & UVFS	132 g	1:1	B	