

Internal Spec: 11221

Description: 656.35-0.49 OD6 Ultra Narrow BP



Optical	Units	Specification	Tolerance	Notes
Filter Type	-	Ultra Narrow Bandpass	-	
Angle of Incidence	Degrees	0		Collimated
Polarization	-	Average	-	
Center Wavelength	nm	656.35	+/- 0.1	
Full Width Half Maximum (50% BW)	nm	0.49	+/- 0.05	
Transmission @ Peak		> 80.0 %T Abs	> 80.0 %T Abs	(Typical T > 85%)
Blocking Range	nm	300 to 642.9	> 6.0 (0.0001) OD Avg	
Blocking Range	nm	669.9 to 1200	> 6.0 (0.0001) OD Avg	
AR Coating				REQUIRED - Side 2
Remarks	-	Filters measured and evaluated in air @ 23° C	-	
Design Notes	-	2-cavity design	-	
Design Notes	-	Bandpass + Blocker on side 1	-	

**Physical / Mechanical**

Material	-	S-BSL7	-	
Substrate Thickness	mm	3		
Transmitted Wavefront Distortion/Error	rms	< 0.25 @ 632.8nm		Over CA
Thermal Coefficient	-	< 0.0025 nm / °C	-	For substrate + coating
Surface Quality	-	80/50	-	per ANSI OP1.002

**Finished Product**

Glass Element Size	mm	48.8	+/- 0.1	
Clear Aperture	mm	> 40.0	> 40.0	
Assembly Diameter	mm	49.95	+/- 0.05	
Assembly Thickness	mm	5	+/- 0.1	
Ring Material	-	Black Anodized Al	-	
Ring #	-	30011	-	
Washer #	-	30009	-	
Painting	-	Edges Black	-	
Marking	-	656.35-0.49 nm ↓	-	
Marking Orientation	-	"TEXT"	-	
Caret Direction	-	Side 1 (BP+BLK)	-	
Mounting Direction	-	_____ ^	-	
Edge Chip	mm		< 0.5	