



O&E Package Solution

# Product Specification

Spec#:           TO26 Cap           (Flat Window)

AFN:           JDFZ-JS-A31          

VER:           000

**1. Product Description**

1.1 Specifications : TO26 Cap ( Flat Window Cap )

1.2 Drawing No. : HP1030001B

**2. Product Specifications**

2.1 Substrate Specifications

2.1.1 Material : Shell: 4J50, Window: D263T

2.1.2 Size: Shell: H=4.4 φ20.0, Window: φ21.5×0.5

2.1.3 Surface quality: Clear aperture optical surface conforms to MIL-PRF-13830B 60/40

Effective light transmission MIL-PRF-13830B 40/20, no pocking

2.1.4 Soldering : HFJD low-temperature glass 1#(radiation resistant glass) sintering packaging

2.2 Finished Product Specification

Dimension (mm)	Depth ( mm )	Effective Clear Aperture ( mm )
4.40±0.15	3.2min	Φ19.0min

2.3 Spectrum Specifications

AR Coating on both side, Tavg > 98%@1064nm

2.4 Airtightness

Leakage rate<1X10<sup>-9</sup> Pa·m<sup>3</sup>/s He

**3. Appearance Quality**

Item		Criteria		Instruments
<b>Glass</b>	gap(periphery)	Depth	< 0.2 mm Acceptable	Microscope
		Width	< 0.2 mm Acceptable	
	pocking	According to the drawing		Microscope
	scratches	Total length less than ¼ diameter, width ≤0.04mm acceptable		Microscope
<b>Soldering flux</b>	air bubbles	< ¼ Welding area, Acceptable Welding area ¼ ~ ½, Qty≤3 Acceptable > ½ Welding area Not allowed		Microscope
	packaging	Welding area without notch, impurities and other defects.		

	overflow of solder	Functional area $\geq$ Minimum Effective Clear Aperture	
<b>Shell</b>	burr	Maximum: 0.02mm	Microscope
	spots	Covered by a metallized layer and intact	
	rust	Not allowed	
	color	No color difference, Overall color uniform acceptable	
	surface	No fouling, bubbling, oxidizing black spot and other welding pollution.	Microscope

**4. Reliability test**

Item	Methods	Criteria	Sampling	Instruments
Solderability	Soldering in high temperature 400°C. After cooling down, using thrust meter to detect thrust.	Thrust of Welding > 3kg/mm <sup>2</sup>	Per lot	Thrust meter
High temperature boiling	100°C/0.095-0.105Mpa/10H	Air Tightness <1X10 <sup>-9</sup> Pa·m <sup>3</sup> /s He	Per lot	High temperature cooking equipment Leak detector

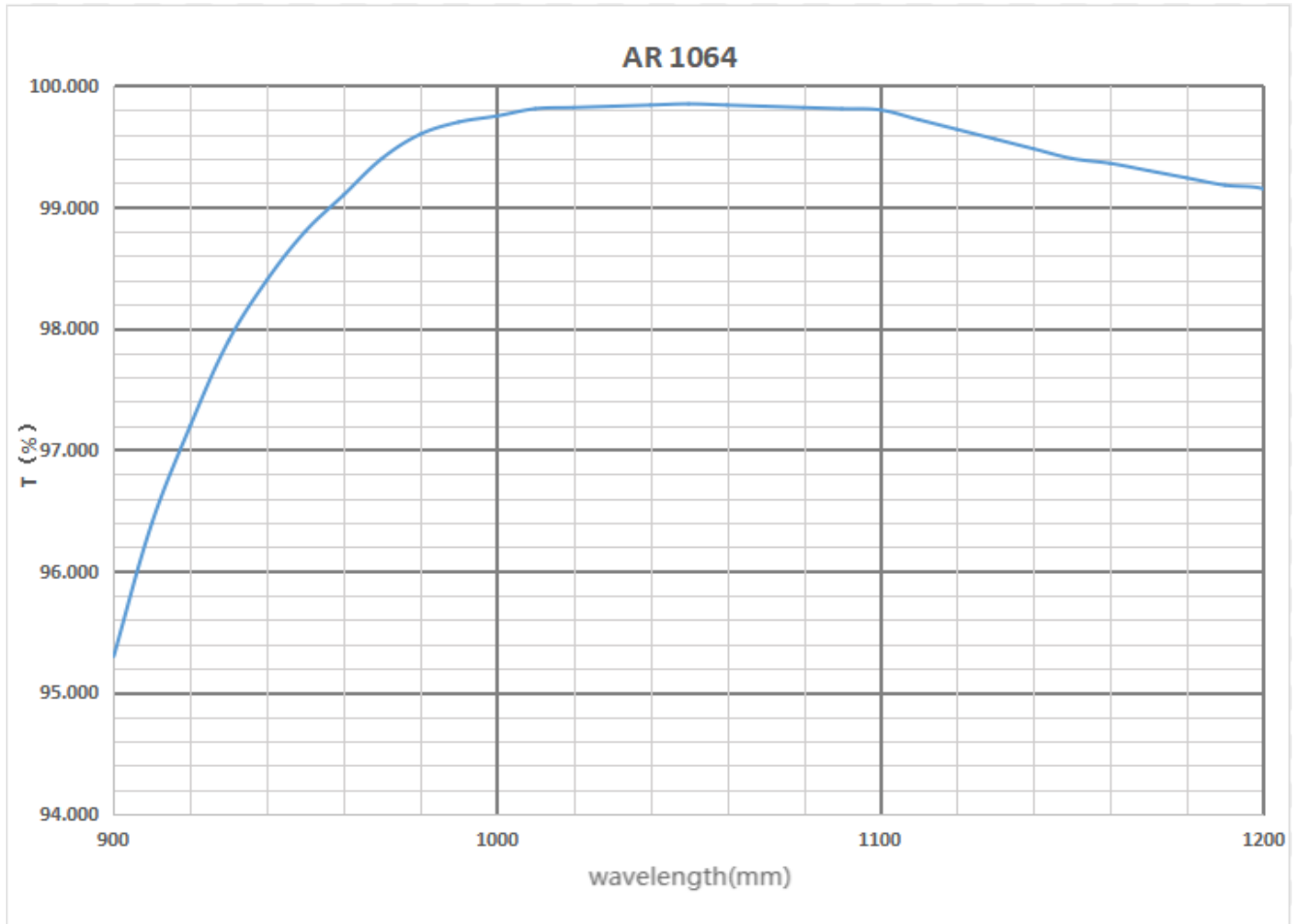
**5. Package**

- 5.1 The product packaging box uses anti-static materials to ensure the cleanliness of the packaging box and ensure that the materials will not be polluted and corroded.
- 5.2 The boxes are packed into clean bags, filled with desiccant and vacuum baled.
- 5.3 The vacuum packaging bag is attached with a label, which contains: Lot No., product name, quantity, delivery date, and company name.
- 5.4 The packing box needs to have flexible materials such as foam to ensure that the vacuum of the packing box does not fail and is not damp.

**6. Shipping**

- 6.1 The products should be packed in a sturdy box. The box should meet fragile goods transport requirements.
- 6.2 Avoid direct exposure to the rain, snow and mechanical collision during transportation.
- 6.3 Inspection reports should be packed in the packing box and the report should meet the requirements according to the drawings.

7. Spectrum



8. Drawing No. : HP1030001B

