



O&E Package Solution

Product Specification

Spec#: ϕ 2.5×0.28mm

AFN: JDZJ-PS01

VER: 000

1. Product Description

2.1 Specifications : $\phi 2.5 \times 0.28$ Sapphire Window

2.2 Drawing No. : 013-51-A-0101A

2. Product Specifications

2.1 Substrate Specifications

2.1.1 Material : sapphire

2.1.2 C-axis precision : $0^\circ \pm 40'$

2.1.3 Surface requirements : $N=4$, $\Delta N=0.5$

2.1.4 Surface quality : MIL-PRF-13830B、40/20

2.2 Finished Product Specification

Description(mm)	Thickness (mm)	Both sides
$\phi 2.5$ 、0/-0.05	0.28 \pm 0.03	AR coating without Metallization
		AR coating with Metallization

2.3 Spectrum Specifications

AR coating on both sides , $R < 1\%$ @1250 ~ 1650nm、 $T > 98\%$ @1250 ~ 1650nm

2.4 Metallization Specifications

Ti: 0.06 \pm 0.012 μ m Pt: 0.2 \pm 0.04 μ m Au: $\geq 0.5\mu$ m; Metallization should meet AuSn soldering requirements.

3. Appearance Quality

Item	Criteria	Description	Instruments
Scratches	MIL-PRF-13830B	40/20	20X microscope
Pockmark	MIL-PRF-13830B	40/20	20X microscope
Dirt	-	Can be removed	20X microscope
Edge chipping	-	Length ≤ 0.05 mm, Quantity on each side ≤ 5 Length ≤ 0.1 mm, Quantity on each side ≤ 2 Length > 0.2 mm not allowed	20X microscope

4. Reliability test

Item	Methods	Criteria	Sampling	Instruments
Film adhesion	3M tape attaches to the film surface tightly, then pull up rapidly in vertical direction.	No damage, peeling and falling off after three times pulling up.	Per lot	Manual
Solderability	After 300 $^\circ$ C soldering, test side trust strength.	Thrust > 1.25 kg/mm 2	random	Thrust meter

High temperature boiling	Using 3M tape attaches to the film surface tightly, then pull up rapidly in vertical direction after 125°C,0.12Mpa,10hours boiling	No damage, peeling and falling off after three times pulling up.	Per lot	Instant high temperature and high humidity furnace
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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.

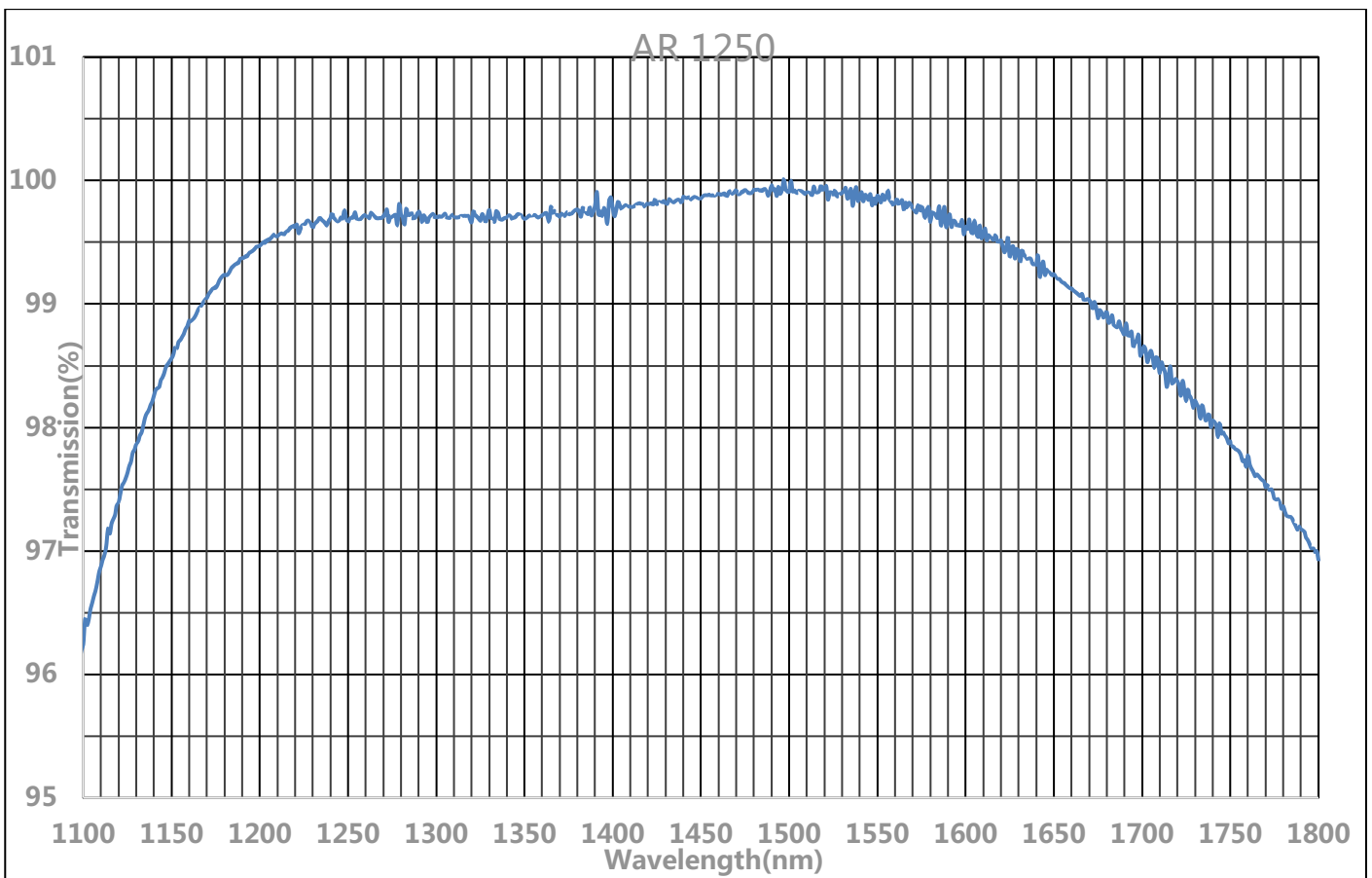
6. Shipment

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 (013-51-A-0101A)

