



O&E Package Solution

Product Specification

Spec: 28.5×25×1mm (AR coating)

AFN: JDSZ-PS03 (Germanium Window)

VER: 000

1. Product Description

1.1 Specifications : 28.5*25*1 AR coating Germanium Window

1.2 Drawing No. : 002-08-A-0103A

2. Product Specifications

2.1 Substrate Specifications

2.1.1 Material : Germanium

2.2 Finished Product Specification

Description(mm)	Thickness (mm)	Both sides
28.5±0.05 25±0.05	1±0.05	Non - metallic side blank area < 0.4
		Metallized side 21±0.3*20.5±0.3

2.3 Spectrum Specifications

2-8µm: Tavg≥40%, T≥8% MIN; 8-12µm: Tavg≥96%, T≥93% MIN; 12--14µm: Tavg≥90%, T≥83% MIN

2.4 Metallization Specifications

Cr: 50 ~ 70 nm Ni: 200 ~300 nm Au: 400 ~ 500 nm

3. Appearance Quality

Item	Criteria	Description	Instruments
Scratches	MIL-PRF-13830B	Scratch to the substrate is not allowed on Au area. 10um ≤Scratch's width≤50um, number of bars≤3, allowed. Each scratch length is less than or equal to 1/4φ allowed. Total scratch length ≤3/4 φ allowed	visual/microscope
Pockmark	MIL-PRF-13830B	Diameter < 65um	visual/microscope
Dirt	-	Can be removed	visual
Edge chipping	-	from edge to the substrate surface starting counting : length<800um allowed width<80um allowed	visual/microscope

5. 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	-
Solderability	Baking in high temperature 400°N2 for 30 mins. After cooling down, using 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	High temperature platform equipment

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	No damage, peeling and falling off after three times pulling up.	Per lot	Fast high temperature and high humidity furnace
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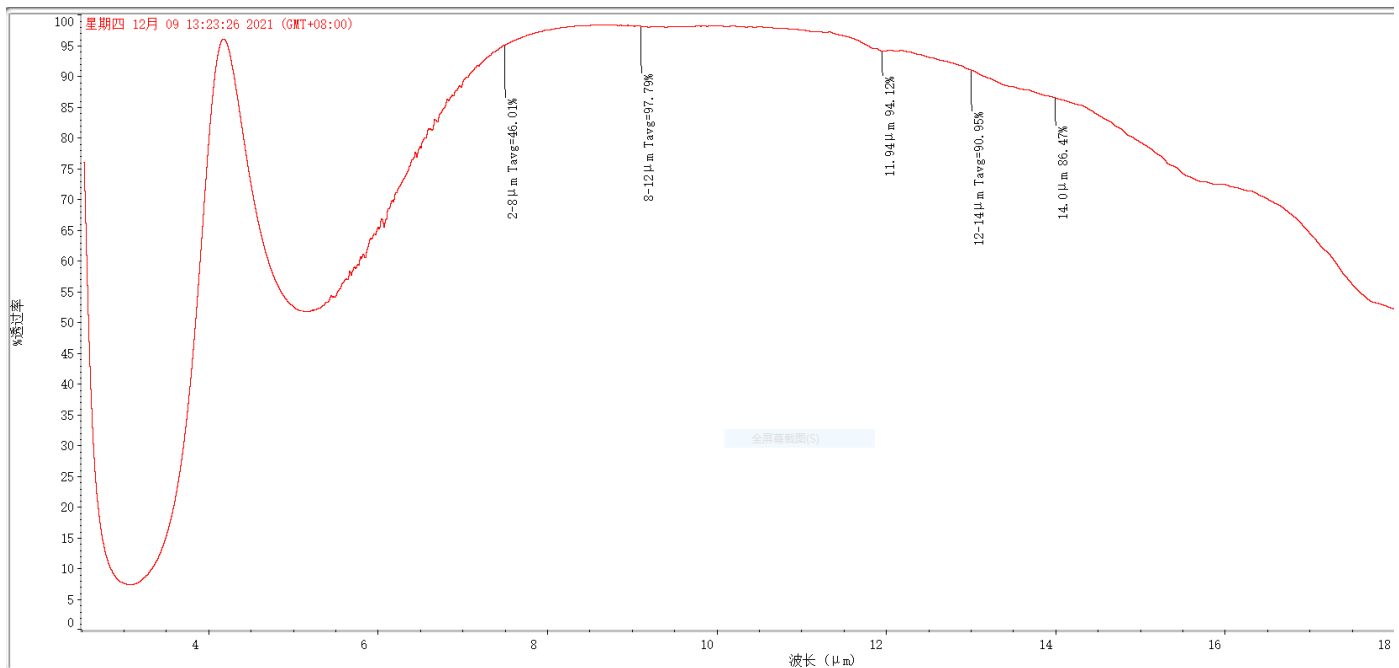
5. Package

- 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. 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 (002-08-A-0103A)

