



O&E Package Solution

# Product Specification

Spec: 21.56×21.56×1 mm (Front off)

AFN: JDSZ-PS02 (Germanium Window)

VER: 000

**1. Product Description**

2.1 Specifications : 21.56\*21.56\*1 Front Cutoff Germanium Window

2.2 Drawing # : 012-03-C-0101B

**2. Product Specifications**

2.1 Substrate Specifications

3.1.1 Material : Germanium

2.2 Finished Product Specification

Dimension (mm)	Thickness (mm)	Both sides
21.56, 0/-0.1	0.1±0.05	Non - metallic side blank area 1.0±0.1
		Metallized side 13.1±0.05 * 11.5±0.05

2.3 Spectrum Specifications

8 -14um : Tavg≥90% < 7um cutoff ;

2.4 Metallization Specifications

Cr: 50~70nm, Ni: 300~400nm, Au: 700~800nm

**4.Appearance Quality**

Item	Criteria	Description	Instruments
Scratches	MIL-PRF-13830B	Scratch to the substrate is not allowed on Au area. Scratch's single width < 15um, length of a single strip ≤1/4 φ=7.5 mm, total scratch length ≤ 3/4 φ=22.5mm on AR coating area	visual/microscope
Pockmark	MIL-PRF-13830B	Diameter < 60um	visual/microscope
Dirt	-	Irremovable not allowed	visual
Edge chipping	-	Visual visibility is not 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.

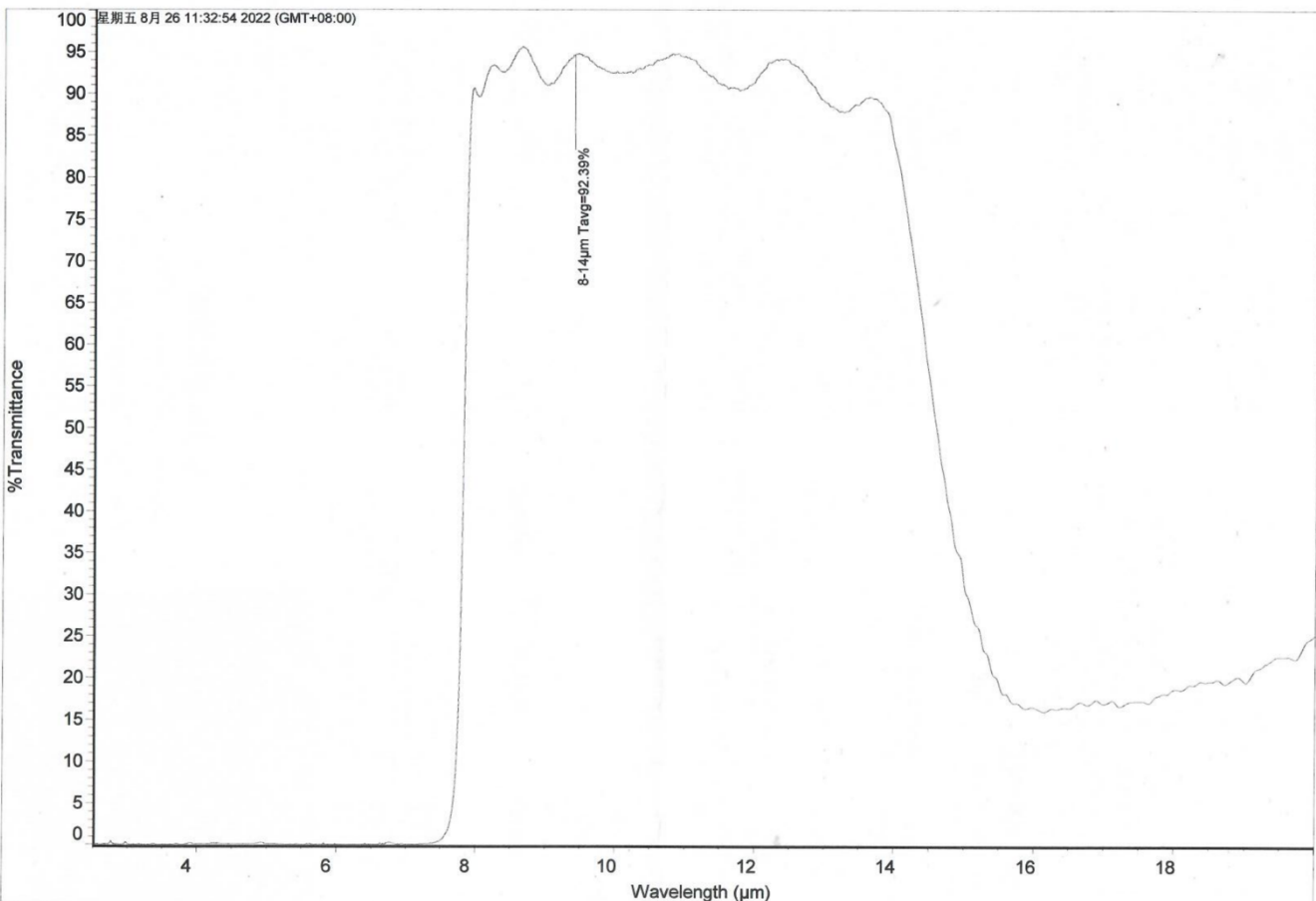
**6. Shipping**

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 (012-03-C-0101B)

