



O&E Package Solution

Product Specification

Spec#: 27×10×1.8mm

AFN: JDZJ-PS04

VER: 000

1.Product Description

1.1 Specifications : 27×10×1.8 Sapphire Window

1.2 Drawing No. : 016-02-A-0101A

2.Product Specifications**2.1 Substrate Specifications**

2.1.1 Material : sapphire

2.1.2 Surface requirements : $N < 4$, $\Delta N < 1$

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

2.2 Finished Product Specification

Dimension (mm)	Thickness (mm)	Both Sides
27±0.03×10±0.03	1.8-0.04/+0.02	Refer to XINXIN's drawing

2.3 Spectrum Specifications

$T_{min} > 96.0\% @ 1100-1700nm$ $T_{avg} > 97.0\% @ 1100-1700nm$

2.4 Metallization Specifications

Cr: 50 ~ 70nm Ni: 300 ~ 400nm Au: ≥1270nm

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 ≤ 0.05mm, Quantity on each side ≤ 5 Length ≤ 0.1mm, Quantity on each side ≤ 2 Length > 0.2mm 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	-
Solderability	After 300°C soldering, test side trust strength.	Thrust > 1.25kg/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



