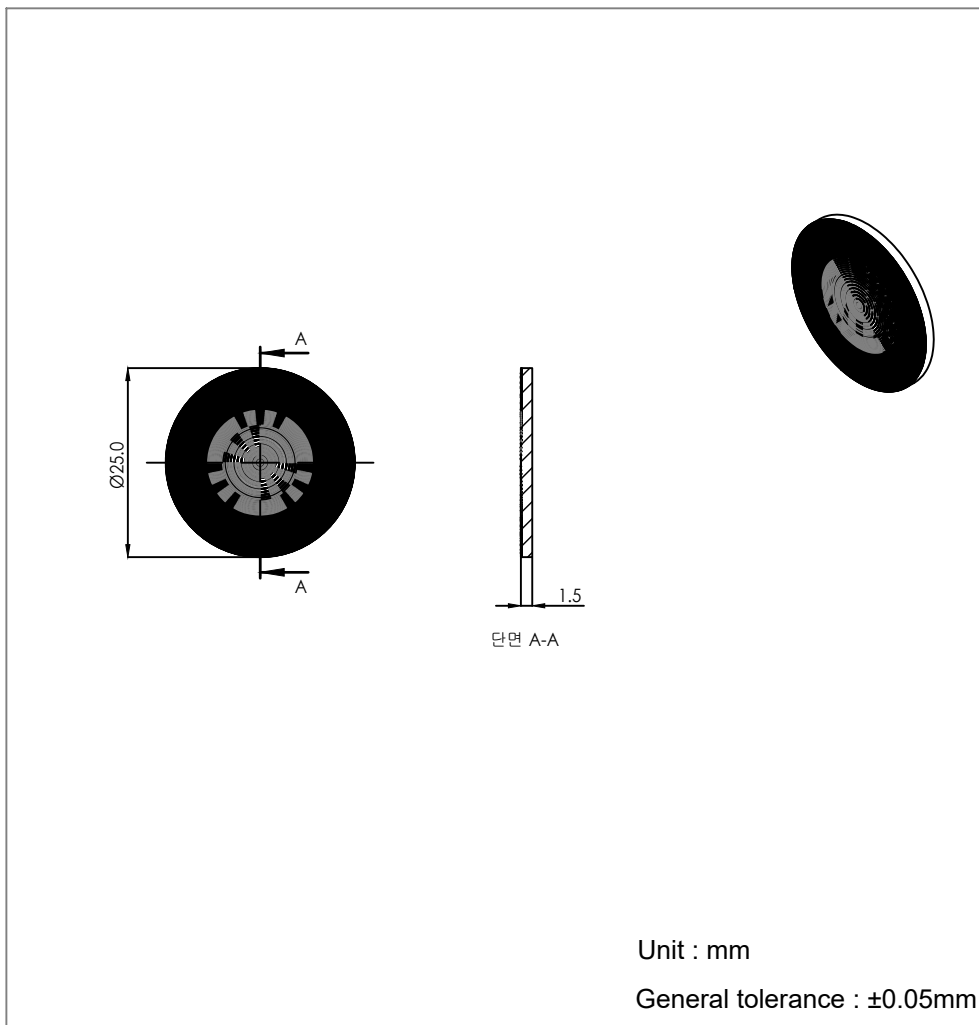


NF26-25

Product Specification

1. Dimensions



3. Material for NIR(Near Infrared) wavelength



(Graph2 – Transmittance of NIR(near infrared) material)

3-1) Poly NIR212

Transmittance

Material name	UV and Visible(280~750nm)	NIR(750~1,400nm)
Poly NIR212	6.96%	91.46%

Poly NIR212 shows very excellent transmittance in the NIR (750~1400nm) and blocks most of the UV and visible Wavelength. It blocks 93.07% of UV and visible wavelength and shows an average transmittance of 91.46% in the main wavelength of Near Infrared.

Poly NIR212 not only has high transmittance of NIR, but also acts as a band pass filter of visible wavelength to prevent malfunction of the photo diode. Poly NIR212 is produced and supplied by custom-made, and mainly produced by injection method.

Properties

Max tensile strength	*Impact strength	*Hardness	*HDT(0.45Map)	Melt Flow rate(230/3.8kg)
62Mpa	694J/m	Rockwell M sale 70	137°C	20g/10min

Poly NIR212 has excellent tensile strength, impact strength, hardness and HDT. Fresnel Factory uses Poly NIR212 for NIR sensing devices exposed to high temperatures and vibrations in the vehicle during summer.

Reference

*HDT(Heat Deflection Temperature) : It exhibits heat resistance at a specific temperature when the sample has displacement of 2.5mm under a specific load.

*Hardness : Abrasion resistance

*Izod Impact strength : Impact resistance