

Fresnel Lens

IML-0685

Product Specification

**1. Scope**

This product specification is applied to fresnel lens IML-0685 used for Pyroelectric infrared sensor IRA-S210ST01 to detect infrared ray. Please contact us when using this product for any other applications than described in the above.

**2. Murata Part Number**

IML-0685

**3. Outline Drawing and Dimensions**

See Figure 1

**4. Material etc.**

## 4-1 Material

High density polyethylene

## 4-2 Refractive Index

1.51

## 4-3 Transmittance

See Figure 4

## 4-4 Color

IML-0685 : Natural White

IML-0685G : Dark Gray

IML-0685W : White

**5. Lens**

## 5-1 Field of View

See Figure 2 and Figure 3

**6. Operating Temperature**

-25 ~ 60°C

**7. Storage Temperature**

-30 ~ 80°C

**8.⚠Caution****8-1 Limitation of Applications**

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects which might directly cause damage to the third party's life, body or property.

1. Aircraft equipment
2. Aerospace equipment
3. Undersea equipment
4. Power plant control equipment
5. Medical equipment
6. Transportation equipment (vehicles, trans, ships, etc.)
7. Traffic signal equipment
8. Disaster prevention / crime prevention equipment
9. Data-processing equipment
10. Application of similar complexity and/or reliability requirement to the applications listed in the above

**8-2 Fail-safe**

Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.