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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 37396.2-2019

**Lasers and laser-related equipment -- Standard optical
components -- Part 2: Components for the infrared spectral
ranges**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 optical component code

Foreword

GB/T 37396 "Standard optical components for lasers and laser-related equipment" is divided into two parts.

--- Part 1. Components in the ultraviolet, visible and near-infrared spectral range;

--- Part 2. Components in the infrared spectrum.

This part is the second part of GB/T 37396.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the redrafting method to modify the use of ISO 11151-2:2015 "laser and laser related equipment standard optical components

Part 2. Components in the outer spectral range.

The structural differences between this part and ISO 11152-2:2015 are as follows.

--- Removed Appendix A and references.

The technical differences between this part and ISO 11151-2:2015 and their reasons are as follows.

---About the normative reference documents, this part has made technical adjustments to adapt to China's technical conditions, specific adjustments as follows.

* Replace ISO 10110-7 with GB/T 1185-2006, which is not equivalent to the international standard;

* Replace ISO 10110-5 with GB/T 2831-2009, which is not equivalent to the international standard;

* Replace ISO 10110-3 with GB/T 7661-2009, which is not equivalent to the international standard;

* Replace ISO 10110-1 with GB/T 13323-2009, which is not equivalent to the international

standard;

- * Replace ISO 9211-1 with GB/T 26332.1-2018 equivalent to the international standard;
- * Replace ISO 9211-2 with GB/T 26332.2-2015 equivalent to the international standard;
- * Added reference to GB/T 7424-2010 (see Chapter 2);
- * Delete references to international standards ISO 10110-2, ISO 10110-4, ISO 10110-6.

1 Scope

This part of GB/T 37396 specifies laser light in the near-infrared to mid-infrared range with wavelengths ranging from 2.1 μm to 15 μm .

Learning component requirements.

This section applies to standard optical components used in laser and laser related equipment, including planar, planar spherical and spherical substrates.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1185-2006 Surface defects of optical parts (ISO 10110-7.1996, NEQ)

GB/T 2831-2009 Surface deviation of optical parts (ISO 10110-5.2007, NEQ)

GB/T 7242-2010 lens center deviation

GB/T 7661-2009 Optical parts bubble (ISO 10110-3.1996, NEQ)

GB/T 13323-2009 Optical drawing (ISO 10110-1.2006, NEQ)

Optical fibres and optical instruments - Part 1 . Definitions (ISO 9211-1.2010, IDT)

Optical and photonic optical films - Part 2. Optical characteristics (ISO 9211-2.2010, IDT)

GB/T 26332.2-2015

3 optical component code

Table 1 shows the optical component codes for this section.

Table 1 optical component code

Optical component type code

Infrared optical flat crystal infraredfraticalf flats IOF

Infrared circular plane window infraredcircularwindows-flat IWC

Infrared elliptical flat window infraredellipticalwindows-flat IWE

Infrared rectangular flat window infraredrectangularwindows-flat IWR

Infrared planar output coupling mirror infraredoutputcouplers-flat IOC

Infrared plane mirror infraredmirrors-flat IMF

Infrared convex mirror infraredmirrors-convex IMX

Infrared concave mirror infraredmirrors-concave IMV

Infrared plano-lens lens infraredplano-convexlenses IPX

Infrared plano-concave lens IPO

Infrared symmetrical lenticular infraredsymmetricbiconvexlenses IBX

Infrared symmetric double concave lens infraredsymmetricbiconcavelenses IBV