

Submitted to: MAXGAIN SYSTEMS INC.

APPROVAL SPECIFICATION OF OPTICAL LOW PASS FILTER
(光学低通滤波器规格书)

CUSTOMER CODE (客户编号): MG121033GIRC

CRYSTAL-OPTECH CODE (水晶光电产品号): 150012010556

TYPE (型号): 12*11*0.33 mm

Customer's Approval By: _____

客户签字:

Checked by: _____
核对:

Issued by: 陈慧建
编制:

Date: 2016/03/08
日期:

SPECIFICATION OF OPTICAL LOW PASS FILTER

1. Scope

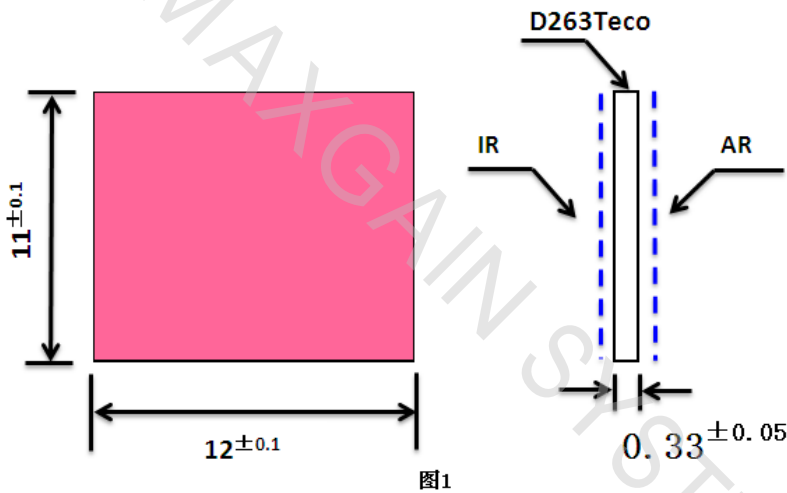
This Specification applies to optical low pass filter type No. 150012010556 which supplied from ZHEJIANG CRYSTAL-OPTECH CO., LTD.

目的：此规格书适用于浙江水晶光电科技股份有限公司生产的光学低通滤波器，型号为150012010556。

2. Material

The low pass filter consists of one piece D263Teco galss(see Fig.1).

材质：光学低通滤波器由一片 D263Teco 环保玻璃制成。（如图 1）。



① D263Teco Glass

Fig.1. Optical Low Pass Filter (No Beveling 无倾斜)

3. Optical Characteristics: 光学特性

3.1 Composition (see table 1) : 组成

Table1. Each part specification

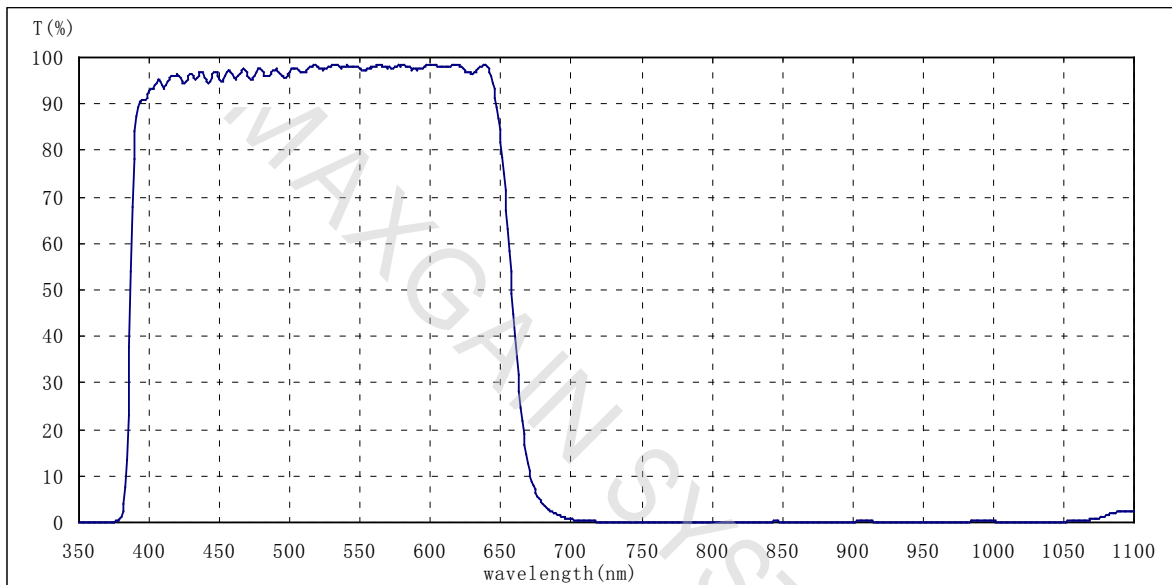
Part No.	Part Name	Dimension (mm)		
		L	W	T
①	D263Teco	12	11	0.33
公差: Tolerance		±0.1	±0.1	±0.05

3.2 Transmission Characteristics (See Table 2)

分光特性

Table2. Spectral transmission

Wave Length (nm)	Transmission (%)
390±20	T = 50
420-620	Tmin ≥ 90 , Tave ≥ 95
605±10	T = 50
700-1000	T < 2
1000-1100	T < 10



4. Defect limits

缺陷限制

4.1 Material defect (inclusion, bubble)

缺陷规格 (包裹体、气泡)

No defect are permitted where the maximum size is more than 60μm within the effective area (such as inclusion and bubble) .

有效区内点状缺陷不得大于 60μm。

Note: The size is defined as follows: (Length + Width)/2

瑕疵尺寸大小: (长+宽)/2

4.2 Scratches: 刮伤

No scratches are permitted where the maximum width is more than 20μm within the effective area.

有效区之内刮伤宽度不得大于 20um。

4.3 Edge Chips:崩边

No edge chips are permitted where both of the thickness and width are more than 0.5mm and the length is more than 0.8mm.

崩边宽度、深度均不大于 0.5mm，长度不大于 0.8mm。

4.4 Dust:灰尘

Dust can be wiped out is acceptable.

可以吹去的灰尘允许有。

5. Durability:

耐久性

5.1 Requirement:

规范要求

It shall be free of any visual defect and comply with transmission rate specification.

An object the limit: effective area.

不得含有目视可见的瑕疵，而且产品必须符合分光规格。

5.2 Storage in high temperature

高温中的储藏

It shall conform 5.1, after 500Hs at 85°C then 24Hs at room temperature.

高温+85°C贮存环境中放置 500 小时，移至室温 24 小时后仍符合 5.1 规范。

5.3 Storage in low temperature

低温中的储藏

It shall conform 5.1, after 500Hs at -40°C then 24Hs at room temperature.

低温贮存-40°C环境中放置 500 小时，移至室温 24 小时后仍符合 5.1 规范。

5.4 Temperature cycle

温度循环

It shall conform 5.1, after 10 cycles of -40°C (2.5 Hs) and +85°C (2.5 Hs) and then 24Hs at room temperature.

低温-40°C (2.5 小时) 及+85°C (2.5 小时) 温度环境中循环 10 次，移至室温 24 小时后仍符合 5.1 规范。

5.5 Humidity 湿度

It shall conform 5.1, after 500Hs at +65°C, 90% relative humidity, then 24Hs at room temperature.

于+65°C，90%相对湿度环境中放置 500 小时后移至室温 24 小时后仍符合 5.1 规范。

6. Packing 包装

Packing shall be made using a special package which does not touch the main surface of OLPF. Each tray contains 100pcs covered by lid. Each five trays shall be lapped and labeled with air cushion lapping.

(See figure2.)

包装需使用特殊包装方式不接触到产品主要表面，每层装载盒可承载 100 片，用防静电包装袋包裹。每五个装载盒再用防静电包装袋包裹，并于袋上贴上标识，在运输中以气泡垫包裹。

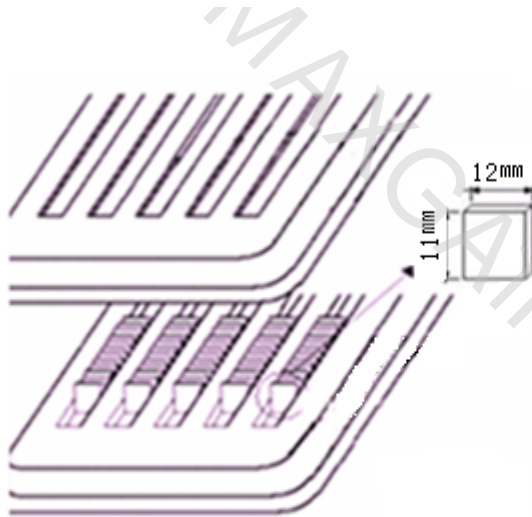


Fig.2 Packing
包装示意图

PART NO	
SPEC.	
TRACKING NO.	
MAXGAIN SYSTEMS. INC	

P/O NO.	
PART NO.	
ITEM	12*11*0.33
Q'TY	500pcs
LOT NO.	*****
INSPECTION	
MAXGAIN SYSTEMS. INC	