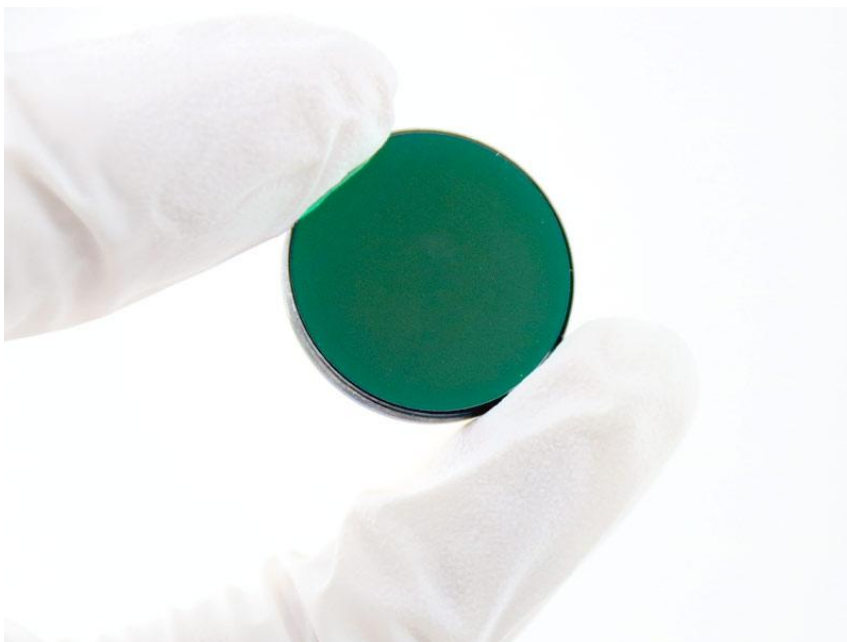




2050nm 短波通滤光片



描述

高透过率，减少光学系统的信号损失，提升光学系统的性能，适用于激光系统、光谱分析、光通信和其他高端光学应用。

产品特点

特定波长选择性、高透过率、耐用材料

产品型号

SP-2050 nm

应用领域

荧光显微镜

光谱学

研究与测试



核心参数

波长	基材	厚度	Cutoff 5 %偏差	透射率
2050nm	Glass	0.5mm	±50nm	> 70%

详细参数

型号	基材	厚度 (mm)	Cutoff 5 %偏差 (± nm)	透射率 (> %)	T Range low	Block high
----	----	------------	---------------------------	--------------	----------------	---------------

型号：SP-Cutoff 单位为纳米（5% 透射率下的 Cutoff）。每种类型的滤光片均提供室温和法线入射角下的光谱曲线。

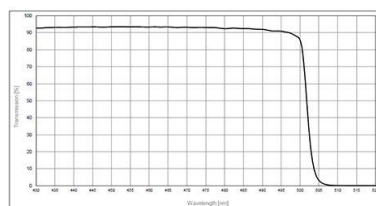
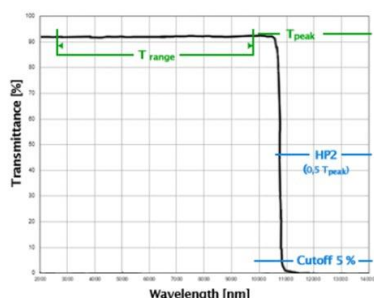
SP-0500 nm	N-bk7	0.5	20	70	400	1200
SP-0505 nm	N-bk7	1	30	80	450	1200
SP-0610 nm	Cemented	1	20	80	420	1200
SP-0810 nm	N-bk7	0.5	20	75	450	1200
SP-0995 nm	Glass	0.5	25	80	700	1200
SP-1000	Glass	0.5	50	70	850	1350



nm						
SP-1015 nm	Glass	0.3	25	70	850	1450
SP-1300 nm	Glass	0.5	50	60	1050	3000
SP-1550 nm	N-bk7	1	30	70	1050	3000
SP-2010 nm	Glass	0.5	50	70	1750	3000
SP-2030 nm	Glass	0.5	30	70	1800	3000
SP-2050 nm	Glass	0.5	50	70	1700	3000
SP-2060 nm	Glass	0.5	50	70	1600	3500
SP-2075 nm	Glass	0.5	40	70		3000
SP-2350 nm	N-bk7	1	50	70	2000	15000
SP-2600 nm	Glass	0.5	100	70	1700	4000

SP-2750 nm	Glass	0.3	80	60	1800	3000
SP-4300 nm	Sapphire	1	50	70	3000	10000
SP-7250 nm	Germanium	1	200	75	5000	14000
SP-8300 nm	Germanium	1	100	70	6500	13000
SP-10200 nm	Germanium	1	150	80		15000

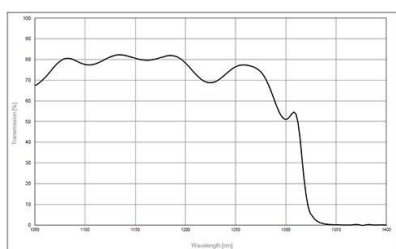
特性曲线



Measured values:
Cutoff 5 % = 554.47 nm...OK
HP2 = 523.87 nm
Tavg = 92.93 %
Slope 2 = 0.72 %

Date: 2023-07-25
Operator:
Article:
Art no: 711M
SP-0565 nm Ø25.4x1.0 mm
Specifications:
Cutoff 5 %: 505 ±30 nm
Blocking high: 1200 nm (0.1 %)
Tavg: 80 %

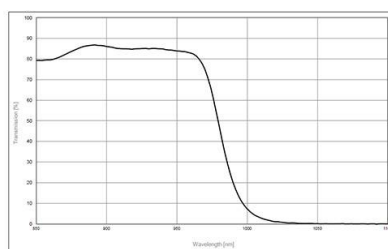
Measurement conditions:
Temperature: 296 K AOI: 0°



Date: 2020-07-03
Operator: PB
Article:
Art no: 711M
SP-1900 nm Ø25.4x0.5 mm
Specifications:
Cutoff 5 %: 1300 ±50 nm
Tavg: > 60 %
Blocking: 3000 nm (0.0 %)

Measurement conditions:
Temperature: 23 °C
AOI: 0 deg

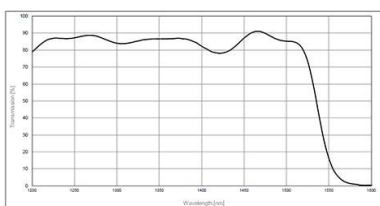
Measured values:
Cutoff 5 % = 1325.32 nm...OK
HP2 = 1314.27 nm
Tavg = 77.24 %...OK
Slope 2 = 3.19 %



Measured values:
Cutoff 5 % = 1003.77 nm...OK
HP2 = 983.28 nm
Tavg = 84.06 %...OK
Slope 2 = 3.2 %

Date: 19-03-22
Operator:
Article:
Art no: 712M
SP-1000 nm Ø25.4x0.5 mm
Specifications:
Cutoff 5 %: 1000 ±50 nm
Tavg: > 70 %
Blocking: 1350 nm (0.0 %)

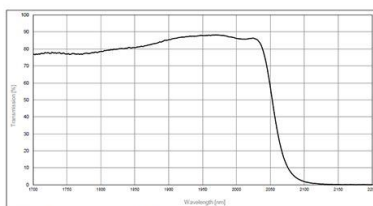
Measurement conditions:
Temperature: 23 °C
AOI: 0 deg



Date: 2020-10-04
Operator: NLF
Article:
Art no: 711M
SP-1550 nm Ø25.4x1.0 mm
Specifications:
Cutoff 5 %: 1550 ±30 nm
Blocking high: 3000 nm (0.1 %)
T avg min: 70 %

Measurement conditions:
Temperature: 296 K AOI: 0°

Measured values:
Cutoff 5 % = 1561.78 nm...OK
HP2 = 1548.89 nm
Tavg = 85.56 %
Slope 2 = 2.39 %



Measured values:
Cutoff 5 % = 2085.5 nm...OK
HP2 = 2054.97 nm
Tavg = 81.9 %
Slope 2 = 2.01 %

Date: 2024-10-24
Operator: DB
Article:
Art no: 713M
SP-2050 nm Ø25.4x0.5 mm
Specifications:
Cutoff 5 %: 2050 ±50 nm
B: ~3000 nm avg 0.1 %
T avg min: 70 % 1700 ~ 2024 nm

Measurement conditions:
Temperature: 296 K AOI: 0°

一般规格

一般规格:

直径: 25.4 毫米 +0/-0.2 毫米。 定制尺寸

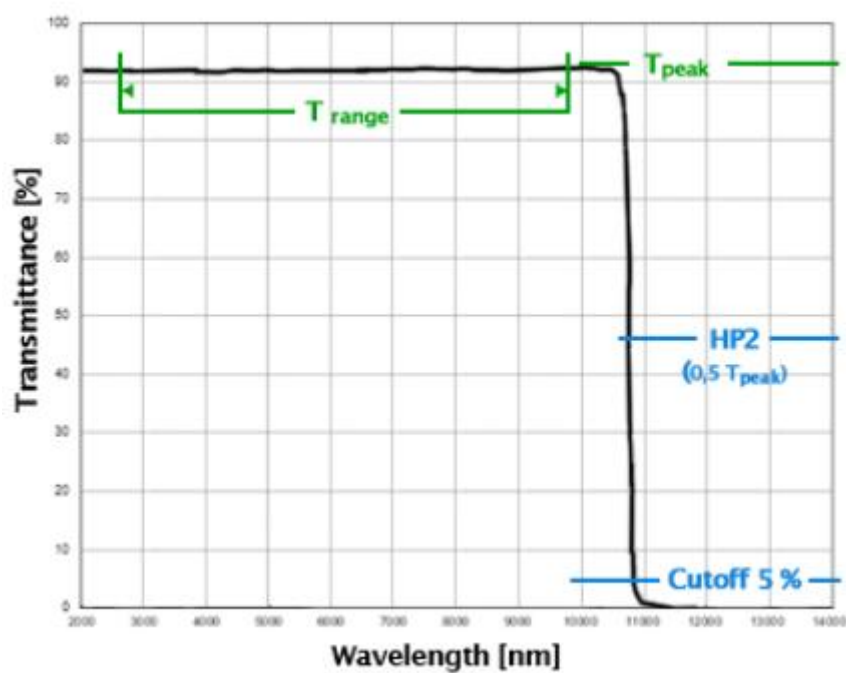
厚度: 在滤光片列表中指定 (毫米) , 公差 ±0.2 毫米

阻挡: Average < 0.1 % above passband through blocked region

斜率: < 5 % 定义为:

$$\%Slope = \frac{\lambda(80\% \text{ of } T_{peak}) - \lambda_c}{\lambda_c} \times 100$$

Spectral measurements



每种类型的滤光片均提供室温和法线入射角下的光谱曲线。