

TECHSPEC® 濾光片



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帶通 | 高通/低通 | 二向色 | 陷波和其他

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TECHSPEC® 硬化鍍膜帶通干涉濾光片



Diameter Tolerance (mm):	+0.0/-0.1
Mount Thickness (mm):	5
Surface Quality:	80-50
Blocking:	OD >4
CWL Tolerance (nm):	±2
FWHM Tolerance (nm):	±2
Typical Energy Density:	
Limit for 532nm Filter:	1 J/cm² @ 532nm, 10ns

- 從適用於生命科學透鏡的窄頻寬,到適用於成像與光照的寬頻寬
- 可用於紫外線、可見光及紅外線中心波長
- 高穿透率,提供OD 4阻隔能力
- 使用壽命長,非常耐用

TECHSPEC® 硬化鍍膜帶通干涉濾光片非常適用於在多種應用(包括機器視覺檢測、螢光顯微鏡、定量化學應用以及多種診斷設備)中消除不需要的背景雜訊並提高訊噪比。與傳統濾光片(需要多個基底與鍍膜)不同,這些硬化鍍膜濾光片的構造僅採用單一基底。與採用傳統鍍膜的濾光片相較,採用的單一基底能提供更深入的阻隔能力、更高的穿透能力以及更陡的斜率。

TECHSPEC® HARD COATED BANDPASS INTERFERENCE FILTERS

Filter Type	Range of CWL Options (nm)	Peak Transmission (%)	Blocking Range (nm)	Blocking	Diameters Available (mm)
10nm Bandpass Filters	310 - 1550	≥85	200 - 1800	OD ≥4	12.5, 25, 50
25nm Bandpass Filters	400 - 1550	≥90	200 - 1800	OD ≥4	12.5, 25, 50
50nm Bandpass Filters	400 - 1550	≥90	200 - 1800	OD ≥4	12.5, 25, 50

TECHSPEC® 陷波濾光片



- OD 4或6雷射波長阻隔
- 穿透頻帶寬,阻隔精確
- 非常適用於雷射式Raman系統、螢光系統及生物醫學系統

TECHSPEC® Notch陷波濾光片具有深入阻隔能力與大範圍的穿透頻譜,並使用硬化鍍膜構造而成,以確保耐用鍍膜不會隨時間、溫度或濕度而衰退。每個濾光片都已安裝在黑色陽極電鍍環中,已對這些環進行雕刻以輕鬆處理、識別或定向濾光片。TECHSPEC® 陷波濾光片特別適用於需要窄頻寬深入阻隔,以及為其他波長提供大穿透範圍的應用。

	OD >4 Notch Filters	OD >6 Notch Filters	OD >6 Multi Notch Filters
Diameter Tolerance (mm):	+0.0/-0.1	+0.0/-0.1	+0.0/-0.1
Thickness (mm):	5.0 ±0.1	3.5 ±0.1	3.5 ±0.1
Reflectivity @ CWL (%):	>99	>99.5	>99.5
Pass Band Transmission (%):	>90	>80%, 350 - 400nm >90%, 400 - 1200nm	>80%, 350 - 400nm >90%, 400 - 1200nm
Transmitted Wavefront (RMS):	1λ	<1λ	<1λ

TECHSPEC® NOTCH FILTERS

*Call for Availability

CWL (nm)	OD >4 Notch Filters					OD >6 Notch Filters				
	FWHM (nm)	Transmission Range (nm)	12.5mm Dia.	25mm Dia.	50mm Dia.	FWHM (nm)	Transmission Range (nm)	12.5mm Dia.	25mm Dia.	50mm Dia.
355	17.8 ± 1.8	325 - 475	#67-106	#67-115	#67-124	—	—	*	*	*
405	20.2 ± 2.0	325 - 540	#67-107	#67-116	#67-125	9.0	350 - 1200	#86-119	#86-124	#86-129
488	24.4 ± 2.4	365 - 650	#67-108	#67-117	#67-126	—	—	*	*	*
514.5	25.7 ± 2.6	385 - 685	#67-109	#67-118	#67-127	—	—	*	*	*
532	26.6 ± 2.7	400 - 700	#67-110	#67-119	#67-128	17.0	350 - 1200	#86-120	#86-125	#86-130
632.8	31.6 ± 3.2	475 - 845	#67-111	#67-120	#67-129	25.0	350 - 1200	#86-121	#86-126	#86-131
785	39.2 ± 3.9	585 - 1045	#67-112	#67-121	#67-130	39.0	350 - 1200	#86-122	#86-127	#86-132
808	40.0 ± 6.0	600 - 1070	#86-700	#86-702	#86-704	—	—	*	*	*
830	42.0 ± 6.0	625 - 1100	#86-701	#86-703	#86-705	—	—	*	*	*
980	49.0 ± 4.9	735 - 1300	#67-113	#67-122	#67-131	—	—	*	*	*
1064	53.2 ± 5.3	800 - 1400	#67-114	#67-123	#67-132	73.0	400 - 1200	#86-123	#86-128	#86-133

TECHSPEC® OD 6 MULTI-NOTCH FILTERS FOR Nd:YAG LASERS

CWL x FWHM (nm)			Transmission Range (nm)	12.5mm Diameter	25mm Diameter	50mm Diameter
Notch 1	Notch 2	Notch 3		Stock No.	Stock No.	Stock No.
355 x 10	532 x 25	N/A	325 - 1200	#87-015	#87-019	#87-023
532 x 25	1064 x 50	N/A	400 - 1200	#87-017	#87-021	#87-025
355 x 10	532 x 25	1064 x 50	370 - 1200	#87-018	#87-022	#87-026

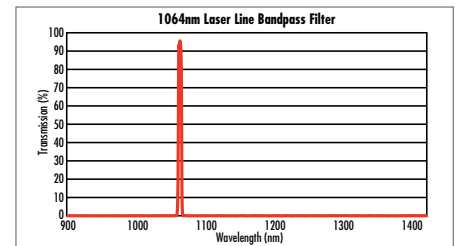
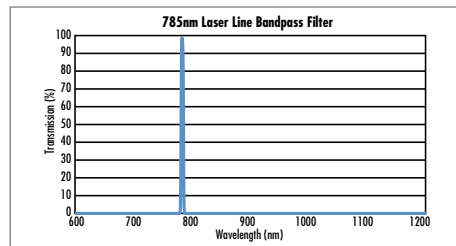
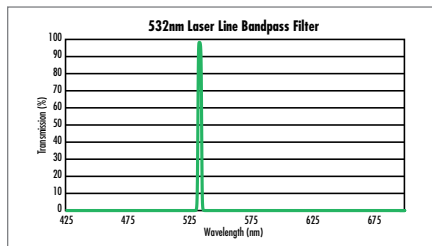
TECHSPEC® 硬質鍍膜雷射淨化濾光片

- 適用於頻寬很窄的氣態與固態雷射
- 適用於頻寬很寬的二極體雷射雜訊過濾
- 高穿透能力,提供OD 4與OD 6阻隔能力

TECHSPEC®硬化鍍膜雷射淨化濾光片具有高穿透與深入阻隔能力,專為搭配使用高效能雷射系統而設計。該濾光片在單一基底上採用耐用的硬化鍍膜,以確保在更長的使用期內取得可靠的效能。



	OD >4 Laser Line Filters	OD >6 Laser Line Filters
Thickness (mm):	3.5 ±0.1	3.5 ±0.1
Diameter Tolerance (mm):	+0.0/-0.1	+0.0/-0.1
Clear Aperture (%):	>90	>90
Transmitted Wavefront (RMS):	$\lambda/4$	$\lambda/4$
Surface Quality:	60-40	60-40
Angle of Incidence (°):	0.0 ±5.0	0.0 ±2.0
Coating:	Hard Sputtered	Hard Sputtered



TECHSPEC® OD 4 LASER CLEAN-UP FILTERS

CWL (nm)	Bandwidth (nm)	Transmission Color	Min. Transmission (%)	Blocking Range (nm)	12.5mm Diameter	25mm Diameter	50mm Diameter
					Stock No.	Stock No.	Stock No.
488	3.0	●	>80	350 - 483nm & 493 - 650nm	#68-840	#68-872	#68-904
514	3.0	●	>80	400 - 509nm & 520 - 700nm	#68-842	#68-874	#68-906
532	3.0	●	>80	400 - 527nm & 537 - 700nm	#68-843	#68-875	#68-907
632	3.0	●	>80	500 - 627nm & 639 - 900nm	#68-847	#68-879	#68-911
785	3.0	●	>80	650 - 777nm & 793 - 1100nm	#68-852	#68-884	#68-916
808	3.0	●	>80	650 - 800nm & 816 - 1100nm	#68-854	#68-886	#68-918
830	3.0	●	>80	700 - 821nm & 839 - 1200nm	#68-855	#68-887	#68-919
980	4.0	●	>80	850 - 970nm & 990 - 1300nm	#68-857	#68-889	#68-921
1064	5.0	●	>80	900 - 1054nm & 1074 - 1400nm	#68-859	#68-891	#68-923

TECHSPEC® OD 6 LASER CLEAN-UP FILTERS

CWL (nm)	Bandwidth (nm)	Transmission Color	Min. Transmission (%)	Blocking Range		12.5mm Diameter	25mm Diameter
				OD 5 Range (nm)	OD 6 Range (nm)	Stock No.	Stock No.
325	1.2	●	≥80	291 - 321 & 328 - 380	299 - 320 & 329 - 357	#68-926	#68-957
355	1.3	●	≥80	314 - 351 & 358 - 422	326 - 349 & 360 - 390	#68-927	#68-958
488	1.9	●	≥90	415 - 483 & 492 - 625	449 - 480 & 495 - 536	#68-936	#68-967
514	2.0	●	≥90	434 - 509 & 519 - 669	473 - 506 & 522 - 566	#68-938	#68-969
532	2.0	●	≥90	447 - 527 & 537 - 699	489 - 524 & 540 - 585	#68-939	#68-970
632	2.4	●	≥90	515 - 626 & 639 - 884	582 - 623 & 642 - 696	#68-943	#68-974
785	3.0	●	≥90	612 - 777 & 793 - 1214	722 - 773 & 797 - 864	#68-947	#68-978
808	3.1	●	≥90	625 - 799 & 816 - 1033	743 - 795 & 820 - 888	#68-949	#68-980
830	3.2	●	≥90	639 - 821 & 838 - 1067	763 - 817 & 842 - 913	#68-950	#68-981
980	3.7	●	≥90	724 - 970 & 989 - 1332	901 - 965 & 994 - 1078	#68-952	#68-983
1064	4.0	●	≥90	779 - 1053 & 1075 - 1429	979 - 1047 & 1080 - 1170	#68-954	#68-985

TECHSPEC® 高效能邊緣濾光片



- OD大於4和大於2的阻隔選項
- 高效的隔絕/穿透
- 提供短波通和長波通選項

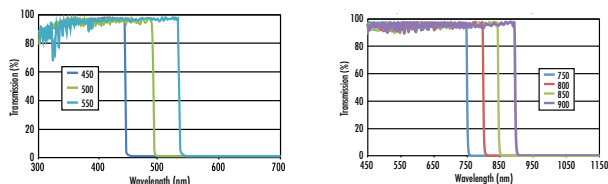
TECHSPEC® High 高效能邊緣濾光片具有OD大於4或大於2的隔絕能力、高穿透能力以及陡峭的斜率,以確保最大效率。

Substrate: UV Grade Fused Silica
Surface Quality: 40-20
Wavefront Distortion: $\leq \lambda/4$ RMS @ 633nm

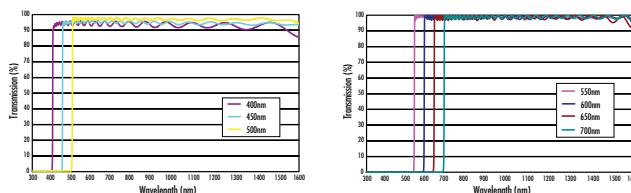
Cut-On/Cut-Off Slope (%):
OD >4 Filters: <1
OD >2 Filters: <3

Pass Band Transmission (%):
OD >4 Filters: ≥ 91
OD >2 Filters: ≥ 85

High Performance OD >4 Shortpass Filters



High Performance OD >4 Longpass Filters



TECHSPEC® OD 4 SHORTPASS FILTERS

Cut-Off Wavelength (nm)	Transmission Band (nm)	Rejection Band (nm)	12.5mm Dia.	25mm Dia.	50mm Dia.
400	300 - 392	410 - 610	#84-689	#84-702	#84-715
425	300 - 417	435 - 635	#84-690	#84-703	#84-716
450	300 - 441	460 - 660	#84-691	#84-704	#84-717
475	300 - 466	485 - 685	#84-692	#84-705	#84-718
500	300 - 490	512 - 715	#84-693	#84-706	#84-719
525	300 - 515	537 - 740	#84-694	#84-707	#84-720
550	350 - 539	562 - 825	#84-695	#84-708	#84-721
575	350 - 564	587 - 850	#84-696	#84-709	#84-722
600	350 - 587	614 - 900	#84-697	#84-710	#84-723
625	350 - 612	639 - 925	#84-698	#84-711	#84-724
650	350 - 636	665 - 960	#84-699	#84-712	#84-725
675	350 - 661	690 - 1000	#84-700	#84-713	#84-726
700	400 - 685	715 - 1050	#84-701	#84-714	#84-727
725	400 - 710	740 - 1090	#86-095	#86-103	#86-111
750	400 - 740	775 - 1125	#86-324	#86-332	#84-728
775	400 - 760	795 - 1155	#86-096	#86-104	#86-112
800	400 - 790	825 - 1190	#86-325	#86-333	#84-729
825	400 - 810	850 - 1190	#86-097	#86-105	#86-113
850	400 - 840	880 - 1190	#86-326	#86-334	#84-730
875	425 - 860	905 - 1220	#86-098	#86-106	#86-114
900	425 - 890	930 - 1250	#86-327	#86-335	#84-731
925	445 - 910	955 - 1290	#86-099	#86-107	#86-115
950	450 - 939	980 - 1325	#86-328	#86-336	#84-732
975	465 - 960	1005 - 1365	#86-100	#86-108	#86-116
1000	465 - 988	1035 - 1400	#86-329	#86-337	#84-733
1025	490 - 1010	1060 - 1430	#86-101	#86-109	#86-117
1050	485 - 1036	1085 - 1460	#86-330	#86-338	#84-734
1075	505 - 1060	1110 - 1495	#86-102	#86-110	#86-118
1100	510 - 1085	1140 - 1530	#86-331	#86-339	#84-735
*1150	535 - 1135	1190 - 1650	#89-669	#89-673	#89-677
*1200	550 - 1185	1240 - 1650	#89-670	#89-674	#89-678
*1250	575 - 1235	1290 - 1650	#89-671	#89-675	#89-679
*1300	600 - 1285	1340 - 1650	#89-672	#89-676	#89-680

* Standard Thickness of 3.0mm

TECHSPEC® OD 4 LONGPASS FILTERS

Cut-On Wavelength (nm)	Rejection Band (nm)	Transmission Band (nm)	12.5mm Dia.	25mm Dia.	50mm Dia.
325*	200 - 320	333 - 1650	#34-295	#34-296	#34-297
350*	200 - 345	358 - 1650	#34-298	#34-299	#34-300
375*	200 - 370	383 - 1650	#34-301	#34-302	#34-303
400	200 - 390	408 - 1650	#62-974	#62-981	#84-754
425	200 - 415	433 - 1650	#84-736	#84-742	#84-748
450	200 - 440	458 - 1650	#62-975	#62-982	#84-755
475	200 - 465	483 - 1650	#84-737	#84-743	#84-749
500	200 - 490	508 - 1650	#62-976	#62-983	#84-756
525	200 - 515	534 - 1650	#84-738	#84-744	#84-750
550	200 - 539	560 - 1650	#62-977	#62-984	#84-757
575	200 - 564	585 - 1650	#84-739	#84-745	#84-751
600	200 - 588	610 - 1650	#62-978	#62-985	#84-758
625	200 - 613	635 - 1650	#84-740	#84-746	#84-752
650	200 - 637	660 - 1650	#62-979	#62-986	#84-759
675	200 - 662	685 - 1650	#84-741	#84-747	#84-753
700	200 - 686	710 - 1650	#62-980	#62-987	#84-760
725	200 - 705	735 - 1650	#86-060	#86-068	#86-076
750	200 - 735	765 - 1650	#66-226	#66-234	#84-761
775	200 - 760	790 - 1650	#86-061	#86-069	#86-077
800	200 - 785	815 - 1650	#66-227	#66-235	#84-762
825	200 - 805	840 - 1650	#86-062	#86-070	#86-078
850	200 - 835	865 - 1650	#66-228	#66-236	#84-763
875	200 - 860	890 - 1650	#86-063	#86-071	#86-079
900	200 - 880	915 - 1650	#66-229	#66-237	#84-764
925	200 - 905	940 - 1650	#86-064	#86-072	#86-080
950	200 - 930	965 - 1650	#66-230	#66-238	#84-765
975	200 - 955	990 - 1650	#86-065	#86-073	#86-081
1000	200 - 980	1020 - 1650	#66-231	#66-239	#84-766
1025	200 - 1005	1045 - 1650	#86-066	#86-074	#86-082
1050	200 - 1030	1070 - 1650	#66-232	#66-240	#84-767
1075	200 - 1055	1095 - 1650	#86-067	#86-075	#86-083
1100	200 - 1080	1120 - 1650	#66-233	#66-241	#84-768
1150**	200 - 1130	1170 - 1650	#89-657	#89-661	#89-665
1200**	200 - 1180	1220 - 1650	#89-658	#89-662	#89-666
1250**	200 - 1230	1270 - 1650	#89-659	#89-663	#89-667
1300**	200 - 1280	1320 - 1650	#89-660	#89-664	#89-668

* All sizes are 1.5mm thick

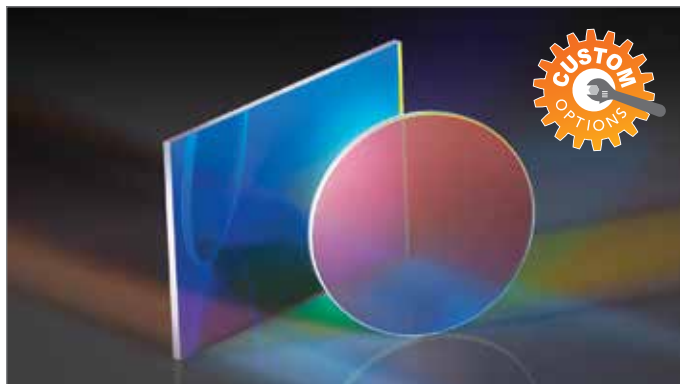
** All sizes are 3.0mm thick

FOR OD 2 FILTERS, visit our website at www.edmundoptics.com.tw/filters

TECHSPEC® 二向色邊緣濾光片

- 非常適用於螢光或多光譜成像
- 明確的截止或穿透波長
- 提供多波段選項

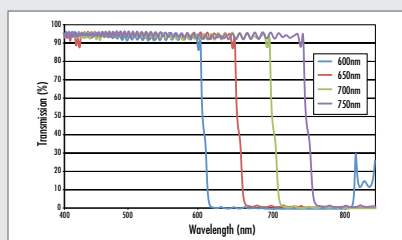
TECHSPEC® 二向色邊緣濾光片針對45°入射角而設計。遭阻隔的光將以90°反射,因此這些濾光片非常適合在螢光應用中使用,或作為光譜分光鏡。這些濾光片的偏振相依性低,光譜範圍大,並具備精密熔融石英基底。



Substrate:	Fused Silica
Transmission Band (%):	$T_{avg} > 85$
Reflection Band (%):	$R_{avg} > 97$
Wavefront Distortion:	$\lambda/4$
Slope Factor (%):	3
Sizes Available (mm):	12.5 Diameter, 12.5 x 17.6 25.0 Diameter, 25.2 x 35.6

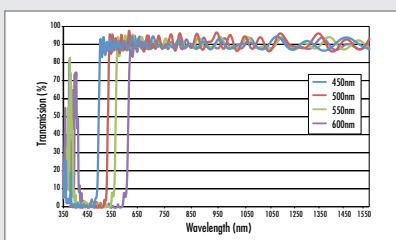
若要下載適用於所有
TECHSPEC® 濾光片的穿透曲線,
請造訪 www.edmundoptics.com.tw/filters

DICHROIC SHORTPASS FILTERS



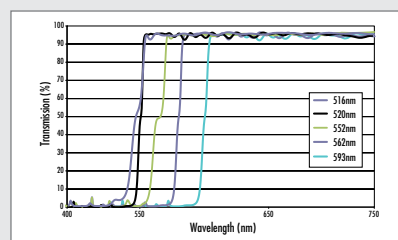
Cut-Off Wavelength (nm)	Transmission Band (nm)	Reflection Band (nm)
400	325 - 385	420 - 485
450	325 - 430	470 - 545
500	325 - 480	520 - 610
550	400 - 530	575 - 725
600	400 - 580	625 - 795
650	400 - 630	675 - 850
700	400 - 680	725 - 900
750	400 - 725	800 - 990
800	400 - 775	850 - 1050
850	400 - 820	910 - 1110
900	465 - 865	960 - 1170
950	495 - 912	997 - 1235
1000	520 - 960	1050 - 1300
1050	546 - 1008	1102 - 1365
1100	572 - 1056	1155 - 1430
1150	598 - 1104	1207 - 1495
1200	624 - 1152	1260 - 1560

DICHROIC LONGPASS FILTERS



Cut-On Wavelength (nm)	Reflection Band (nm)	Transmission Band (nm)
400	350 - 375	420 - 1600
450	350 - 430	470 - 1600
500	350 - 480	520 - 1600
550	415 - 515	575 - 1600
600	460 - 570	625 - 1600
650	495 - 610	675 - 1600
700	535 - 660	725 - 1600
750	565 - 715	780 - 1600
800	600 - 760	830 - 1600
850	635 - 805	880 - 1600
900	675 - 855	935 - 1600
950	715 - 900	985 - 1600
1000	750 - 950	1035 - 1600
1050	790 - 1000	1085 - 1600
1100	825 - 1045	1135 - 1600
1150	875 - 1095	1190 - 1600
1200	920 - 1160	1240 - 1600

FLUORESCENCE DICHROIC FILTERS



Cut-On Wavelength (nm)	Reflection Band (nm)	Transmission Band (nm)
409	325 - 404	415 - 850
458	415 - 450	467 - 600
482	350 - 470	490 - 850
495	435 - 488	502 - 730
506	440 - 500	513 - 730
510	350 - 488	515 - 850
516	350 - 510	520 - 850
520	475 - 512	528 - 730
552	350 - 544	558 - 850
562	490 - 554	570 - 750
593	520 - 585	600 - 800
605	350 - 596	612 - 950
660	580 - 651	670 - 800
685	590 - 676	695 - 810
801	450 - 790	814 - 1100
-	-	-
-	-	-

無法找到所需的濾光片? 請立即聯絡我們!

TECHSPEC® 高效能螢光二向色濾光片



- 更優質的平整度、穿透波前及表面品質
- 適用於螢光顯微鏡或高放大倍率成像應用
- 最受青睞的螢光及二向色高通濾光片穿透波長

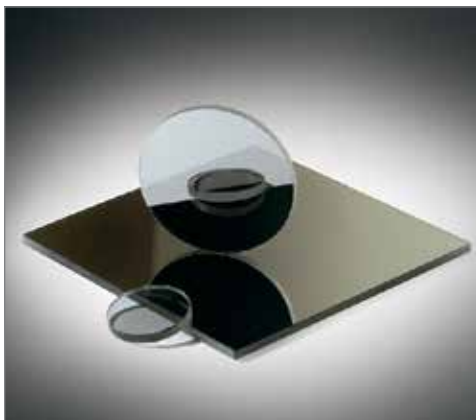
我們的 TECHSPEC® 高效能螢光二向色濾光片，擁有與備受歡迎的 TECHSPEC® 螢光二向色濾光片相等之寬闊平直的穿透與反射範圍，但具備更優良的物理參數。特別著重於表面平整度、穿透波前及表面品質，進而創造了擁有最高等級精準度的濾光片。這些矩形的濾光片適用於最常見的 Nikon、Zeiss 和 Olympus 螢光顯微鏡。高效能螢光二向色濾光片是 TECHSPEC® 螢光帶通濾光片的完美補充。針對特定波長或尺寸需求，我們提供數種客製選擇。

Substrate:	UV Grade Fused Silica
Dimensional Tolerance (mm):	+0.0/-0.10
Thickness (mm):	1.05 ±0.1
Transmitted Wavefront (RMS):	$\lambda/10$
Surface Flatness (P-V):	$\lambda/2$
Surface Quality:	40-20
Angle of Incidence:	45°
Reflection Band (%):	$R_{avg} > 98$
Transmission Band (%):	$T_{avg} > 90$

TECHSPEC® HIGH PERFORMANCE FLUORESCENCE DICHROIC FILTERS

Cut-on Wavelength (nm)	Reflection Band (nm)	Transmission Band (nm)	12.5 x 17.6mm Stock No.	25.2 x 35.6mm Stock No.
409	325 - 404	415 - 850	#34-724	#34-725
435	325 - 425	444 - 850	#34-726	#34-727
450	350 - 430	457 - 850	#34-728	#34-729
482	350 - 470	490 - 850	#34-730	#34-731
495	435 - 488	502 - 730	#34-732	#34-733
506	440 - 500	513 - 730	#34-734	#34-735
552	350 - 544	558 - 850	#34-736	#34-737
600	460 - 570	607 - 900	#34-738	#34-739
605	350 - 596	612 - 950	#34-740	#34-741
660	580 - 651	670 - 800	#34-742	#34-743
750	565 - 715	757 - 950	#34-744	#34-745
800	600 - 760	807 - 1000	#34-746	#34-747
850	635 - 805	857 - 1050	#34-748	#34-749

TECHSPEC® 中性密度濾光片



- 適中的價格擁有最優的準確性與中性特質
- 光譜平直
- 可堆疊使用建立需要的密度值
- 提供其他ND濾光片-吸收型、非反射型以及更多

中性密度濾光片在整個表面上的密度值保持恆定。穿透與反射的比率視選取的密度不同而不同。在堆疊中，總密度是每個濾光片之密度的總和。中性密度濾光片主要用於減弱大光譜範圍內的光線，也適用於功率過高會導致裝置破壞或結果不準確的雷射與光度計應用。請以0°入射角將反射面一側面向光源。

Substrate:	Float Glass
Dimensional Tolerance (mm):	±0.5
Wavelength Range (nm):	400 - 700
Parallelism (arcmin):	≤3
Thickness (mm):	1.5 nominal
Surface Quality:	80-50
Neutrality: OD ≤0.2:	±2% Transmission
OD >0.2:	±5% of Density
Coating:	First Surface Inconel
Clear Aperture (%):	80

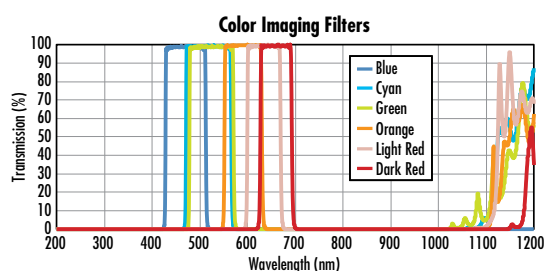
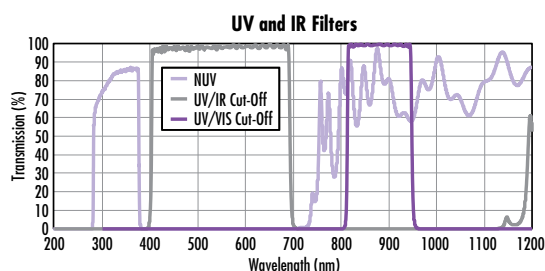
TECHSPEC® REFLECTIVE NEUTRAL DENSITY FILTERS

Optical Density	Transmission (%)	Reflection (%)	12.5mm Diameter	25mm Diameter	50 x 50mm
0.10	79	10	#64-125	#64-131	#64-137
0.15	70	12	#64-126	#64-132	#64-138
0.20	63	14	#64-127	#64-133	#64-139
0.30	50	21	#46-131	#30-933	#43-813
0.40	40	25	#64-128	#64-134	#64-140
0.50	32	30	#46-132	#30-934	#43-814
0.60	25	37	#49-071	#49-072	#49-073
0.70	20	42	#64-130	#64-136	#64-142
0.90	12.5	50	#49-074	#49-075	#49-076
1.00	10	45	#46-133	#30-935	#43-815
1.30	5.0	50	#46-134	#30-936	#46-123
1.50	3.2	55	#46-135	#30-937	#46-124
2.00	1.0	55	#46-136	#30-938	#43-816
2.50	0.3	55	#46-137	#43-811	#46-125
3.00	0.1	55	#46-138	#43-812	#46-126

TECHSPEC® 成像濾光片

- 針對常見LED光源使用
- 提供多種安裝尺寸和螺紋, 提高系統相容性
- 極高且平坦的穿透率提供均勻照明

TECHSPEC® 即使對要求最嚴苛的應用, 愛特蒙特光學®也能提供適用的精密濾光片。我們的濾光片設計是在精密基材上鍍有超耐用的鍍膜, 藉此挑戰如今最精細的度量技術。我們可以針對擁有高光學密度、高穿透能力及穿透曲線陡峭等特點的應用來設計濾光片鍍膜。對於所有濾光片(包括低通、高通、雷射帶通、螢光帶通、二向色及陷波濾光片)類型, 我們都提供客製鍍膜。不論您需要大量濾光片用於製造, 還是只需要少量以建立原型, 我們都能提供客製濾光片。如需詳細資訊或要協商報價, 請聯絡我們。



DIMENSIONS

Filter Thread	Outer Diameter (mm)	Front Thread (to allow for stacking)	Filter Diameter (mm)	Thickness (mm)	Thread Length (mm)	Clear Aperture CA (mm)
M22.5 x 0.50	24.5	M22.5 x 0.50	20.1	4.5	2.0	18.5
M25.5 x 0.50	27.5	M25.5 x 0.50	23.0	4.5	2.0	21.5
M30.5 x 0.50	32.5	M30.5 x 0.50	28.0	5.0	2.0	26.5
M34.0 x 0.50	36.0	M34.0 x 0.50	31.6	5.0	1.5	30.0
M35.5 x 0.50	37.0	M35.5 x 0.50	33.1	5.0	2.0	31.5
M40.5 x 0.50	42.0	M40.5 x 0.50	38.0	5.0	2.0	36.5
M43.0 x 0.75	45.0	M43.0 x 0.75	40.2	5.0	2.0	39.2
M46.0 x 0.75	48.0	M46.0 x 0.75	43.2	4.8	2.2	41.5
M55.0 x 0.75	57.0	M55.0 x 0.75	52.2	4.8	2.2	50.5
M62.0 x 0.75	65.0	M62.0 x 0.75	59.2	5.5	2.5	57.5

COATING SPECIFICATIONS

Filter	Center Wavelength (nm)	Full Width Half Max (nm)	Average Transmission (%)	Absolute Blocking Range (nm)	
				OD ≥3	OD ≥4
NUV	330	95	74	400 - 650	200 - 250
Blue	470	85	95	200 - 400	550 - 1200
Cyan	518	95	89	600 - 1000	200 - 450
Green	524	92	94	200 - 450	600 - 1000
UV/IR Cut-Off	548	290	95	200 - 370	750 - 1100
Orange	590	79	89	700 - 1050	200 - 500
Light Red	634	70	93	200 - 550	700 - 1050
Dark Red	660	66	94	200 - 550	720 - 1120
UV/VIS Cut-Off	880	135	96	200 - 750	1000 - 1200

TECHSPEC® IMAGING FILTERS

Filter Thread	NUV	Blue	Cyan	Green	UV/IR Cut-Off	Orange	Light Red	Dark Red	UV/VIS Cut-Off
	Stock No.	Stock No.	Stock No.	Stock No.	Stock No.	Stock No.	Stock No.	Stock No.	Stock No.
M22.5 x 0.50	#89-753	#89-763	#89-773	#89-783	#89-793	#89-803	#89-813	#89-823	#89-833
M25.5 x 0.50	#89-754	#89-764	#89-774	#89-784	#89-794	#89-804	#89-814	#89-824	#89-834
M30.5 x 0.50	#89-755	#89-765	#89-775	#89-785	#89-795	#89-805	#89-815	#89-825	#89-835
M34.0 x 0.50	#89-756	#89-766	#89-776	#89-786	#89-796	#89-806	#89-816	#89-826	#89-836
M35.5 x 0.50	#89-757	#89-767	#89-777	#89-787	#89-797	#89-807	#89-817	#89-827	#89-837
M40.5 x 0.50	#89-758	#89-768	#89-778	#89-788	#89-798	#89-808	#89-818	#89-828	#89-838
M43.0 x 0.75	#89-759	#89-769	#89-779	#89-789	#89-799	#89-809	#89-819	#89-829	#89-839
M46.0 x 0.75	#89-760	#89-770	#89-780	#89-790	#89-800	#89-810	#89-820	#89-830	#89-840
M55.0 x 0.75	#89-761	#89-771	#89-781	#89-791	#89-801	#89-811	#89-821	#89-831	#89-841
M62.0 x 0.75	#89-762	#89-772	#89-782	#89-792	#89-802	#89-812	#89-822	#89-832	#89-842

濾光片功能

- 耐用的硬化鍍膜單一基底濾光片
- 高穿透率、深入阻隔能力、陡峭的斜率
- 客製設計-原型與量產

Edmund Optics® 硬化鍍膜帶通干涉濾光片非常適用於在多種應用(包括機器視覺檢測、螢光顯微鏡、定量化學應用以及多種診斷設備)中消除不需要的背景雜訊並提高訊雜比。與傳統濾光片(需要多個基底與鍍膜)不同,這些硬化鍍膜濾光片的構造僅採用單一基底。與採用傳統鍍膜的濾光片相較,採用的單一基底構造能提供更深入的阻隔能力、更高的穿透能力以及更陡的斜率。

FILTER COATING CAPABILITIES	
Description	
Dimensions (Diameter or Square)	2 - 1000mm
Substrates	All Glass Types
Spectral Ranges	193nm - 14µm
Edge Steepness (T _{50%} to OD >4)	<0.5%
Spectral Edge Tolerance	<1% Deviation, <0.2% Special Cases
Blocking	>OD 7, Measured
Neutral Density Tolerance	OD ±5%
Center Wavelength (CWL)	±1nm
Bandwidth	1nm - Broadband
Transmission	>95%, Typical
Reflection	0.1 - 99.95%
Polarization (S:P)	10,000:1
Laser Damage Threshold	Up to 20 J/cm² @ 20ns Pulses
Durability	MIL-STD-810F, Section 507.4, MIL-C-48497A, Section 3.4.1
Parallelism	1 arcsec
Surface Quality	20-10

TECHSPEC® 螢光濾光片套件



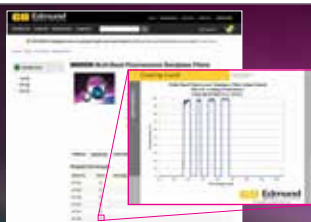
- 提供激發、發射與二向色濾光片,可進行螢光成像
- 具有超過93%的穿透率及OD 6阻隔能力,可取得最大的亮度與對比度
- 在單一基材上具有硬化鍍膜
- 濾光片也可單獨購買

	Excitation and Emission	Dichroic
Filter Dimensions (mm):	25.0 ± 0.0/-0.1	25.2 x 35.6 ± 0.0/-0.1
Thickness (mm):	3.5 ± 0.1	1.05 ± 0.1
Clear Aperture (mm):	22.0	22.0 x 30.0
Transmitted Wavefront (RMS):	<λ/4	<1λ
Angle of Incidence (°):	0.0 ± 5.0	45.0 ± 1.0

查看所有螢光濾光片套件，
請訪問 www.edmundoptics.com.tw/filter-sets

是否看到我們的
曲線?

下載適用於所有TECHSPEC®
Filters 濾光片的鍍膜曲線



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