

[All Products](#) / [Optics](#) / [Optical Filters](#) / [Shortpass Filters](#)

TECHSPEC® High Performance OD 4.0 Shortpass Filters



- Broad Transmission and Rejection Ranges
- Sharp Slope for Effective Spectral Discrimination
- Combine with Longpass Filter for Custom Bandpass Ranges

Common Specifications

General

Note:

Arrow on part indicates filter coated surface.

Physical & Mechanical Properties

Clear Aperture (%):

>80

Physical Durability:

Adhesion per MIL-PRF-13830B, Section C.4.5.12
Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11
Cleaning per MIL-C-48497A Section 4.5.4.2

Optical Properties

Angle of Incidence (°):

0

Optical Density OD (Average):

≥4.0

Substrate:

[Fused Silica](#) (Corning 7980)

Coating:

Hard Coated

Surface Quality:

60-40

Transmission (%):

≥91

Transmitted Wavefront, RMS:

≤λ/4 @ 633nm (prior to coating)

Cut-Off Tolerance (%):

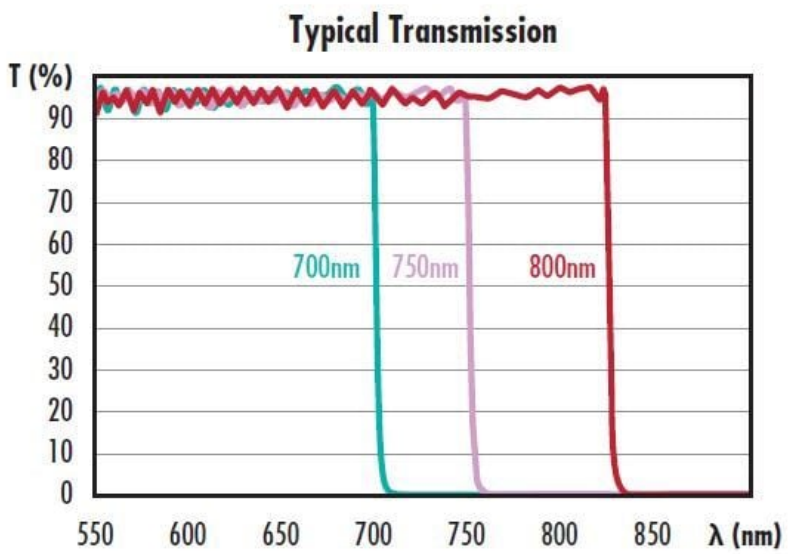
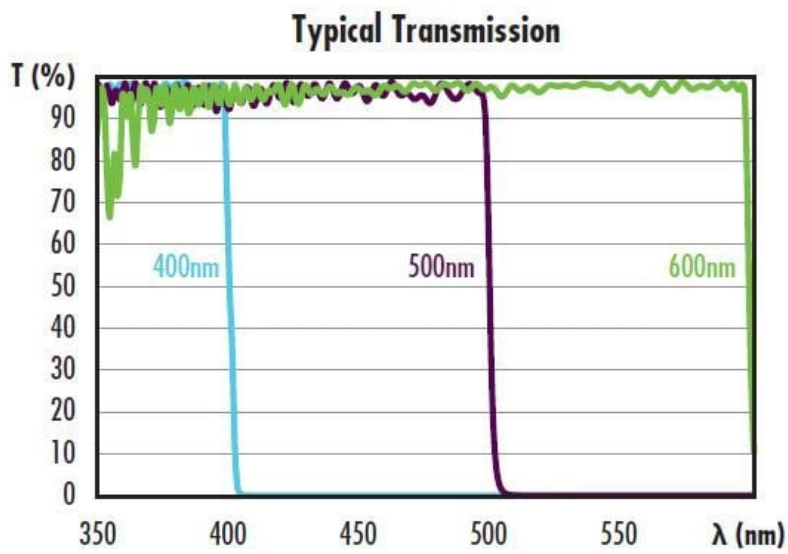
±1

Environmental & Durability Factors

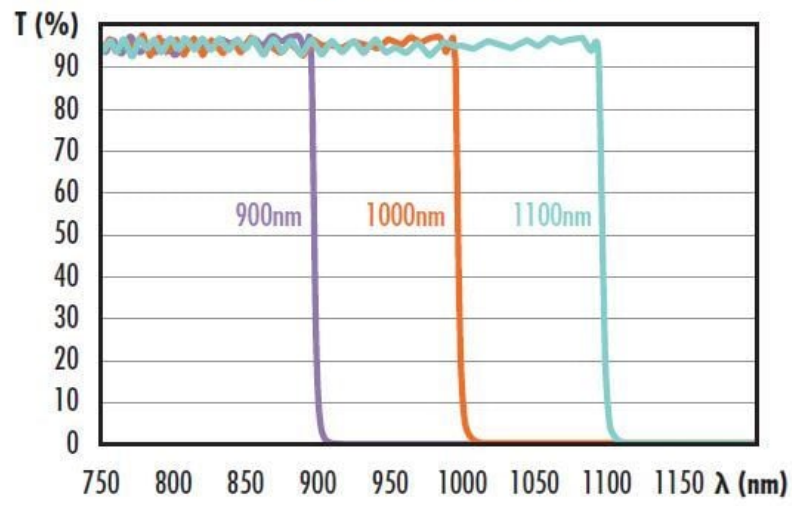
Environmental Durability:

Humidity per MIL-STD-810H, Section 507.6
Temperature per MIL-STD-810H, Section 501.7 and 502.7

Technical Information



Typical Transmission



Products

Dia. (mm)	Cut-Off Wavelength (nm)	Rejection Wavelength (nm)	Transmission Wavelength (nm)	Wavelength Range (nm)	Stock Number	Price	Buy
12.50	400.00	410 - 610	300 - 392	300 - 610	#84-689	£168.97 Volume Pricing	10 In Stock
25.00	400.00	410 - 610	300 - 392	300 - 610	#84-702	£228.51 Volume Pricing	3 In Stock
50.00	400.00	410 - 610	300 - 392	300 - 610	#84-715	£485.03 Volume Pricing	9 In Stock
12.50	425.00	435 - 635	300 - 417	300 - 635	#84-690	£168.97 Volume Pricing	20+ In Stock
25.00	425.00	435 - 635	300 - 417	300 - 635	#84-703	£228.51 Volume Pricing	13 In Stock
50.00	425.00	435 - 635	300 - 417	300 - 635	#84-716	£485.03 Volume Pricing	4 In Stock
12.50	450.00	460 - 660	300 - 441	300 - 660	#84-691	£168.97 Volume Pricing	5 In Stock
25.00	450.00	460 - 660	300 - 441	300 - 660	#84-704	£228.51 Volume Pricing	14 In Stock
50.00	450.00	460 - 660	300 - 441	300 - 660	#84-717	£485.03 Volume Pricing	4 In Stock
12.50	475.00	485 - 685	300 - 466	300 - 685	#84-692	£168.97 Volume Pricing	13 In Stock
25.00	475.00	485 - 685	300 - 466	300 - 685	#84-705	£228.51 Volume Pricing	5 In Stock
50.00	475.00	485 - 685	300 - 466	300 - 685	#84-718	£485.03 Volume Pricing	5 In Stock
12.50	500.00	512 - 715	300 - 490	300 - 715	#84-693	£168.97 Volume Pricing	20+ In Stock
25.00	500.00	512 - 715	300 - 490	300 - 715	#84-706	£228.51 Volume Pricing	20+ In Stock
50.00	500.00	512 - 715	300 - 490	300 - 715	#84-719	£485.03 Volume Pricing	6 In Stock
12.50	525.00	537 - 740	300 - 515	300 - 740	#84-694	£168.97 Volume Pricing	20+ In Stock
25.00	525.00	537 - 740	300 - 515	300 - 740	#84-707	£228.51 Volume Pricing	5 In Stock
50.00	525.00	537 - 740	300 - 515	300 - 740	#84-720	£485.03 Volume Pricing	12 In Stock

12.50	550.00	562 - 825	350 - 539	350 - 825	#84-695	£168.97 Volume Pricing	12 In Stock
25.00	550.00	562 - 825	350 - 539	350 - 825	#84-708	£228.51 Volume Pricing	20+ In Stock
50.00	550.00	562 - 825	350 - 539	350 - 825	#84-721	£485.03 Volume Pricing	3 In Stock
12.50	575.00	587 - 850	350 - 564	350 - 850	#84-696	£168.97 Volume Pricing	10 In Stock
25.00	575.00	587 - 850	350 - 564	350 - 850	#84-709	£228.51 Volume Pricing	17 In Stock
50.00	575.00	587 - 850	350 - 564	350 - 850	#84-722	£485.03 Volume Pricing	2 In Stock
12.50	600.00	614 - 900	350 - 587	350 - 900	#84-697	£168.97 Volume Pricing	Contact Us
25.00	600.00	614 - 900	350 - 587	350 - 900	#84-710	£228.51 Volume Pricing	16 In Stock
50.00	600.00	614 - 900	350 - 587	350 - 900	#84-723	£485.03 Volume Pricing	3 In Stock
12.50	625.00	639 - 925	350 - 612	350 - 925	#84-698	£168.97 Volume Pricing	9 In Stock
25.00	625.00	639 - 925	350 - 612	350 - 925	#84-711	£228.51 Volume Pricing	5 In Stock
50.00	625.00	639 - 925	350 - 612	350 - 925	#84-724	£485.03 Volume Pricing	7 In Stock
12.50	650.00	665 - 960	350 - 636	350 - 960	#84-699	£168.97 Volume Pricing	20+ In Stock
25.00	650.00	665 - 960	350 - 636	350 - 960	#84-712	£228.51 Volume Pricing	Contact Us
50.00	650.00	665 - 960	350 - 636	350 - 960	#84-725	£485.03 Volume Pricing	17 In Stock
12.50	675.00	690 - 1000	350 - 661	350 - 1000	#84-700	£168.97 Volume Pricing	20+ In Stock
25.00	675.00	690 - 1000	350 - 661	350 - 1000	#84-713	£228.51 Volume Pricing	20+ In Stock
50.00	675.00	690 - 1000	350 - 661	350 - 1000	#84-726	£485.03 Volume Pricing	8 In Stock
12.50	700.00	715 - 1050	400 - 685	400 - 1050	#84-701	£168.97 Volume Pricing	17 In Stock
25.00	700.00	715 - 1050	400 - 685	400 - 1050	#84-714	£228.51 Volume Pricing	20+ In Stock
50.00	700.00	715 - 1050	400 - 685	400 - 1050	#84-727	£485.03 Volume Pricing	Contact Us
12.50	725.00	740 - 1090	400 - 710	400 - 1090	#86-095	£177.73 Volume Pricing	12 In Stock

25.00	725.00	740 - 1090	400 - 710	400 - 1090	#86-103	£238.14 Volume Pricing	Contact Us
50.00	725.00	740 - 1090	400 - 710	400 - 1090	#86-111	£494.66 Volume Pricing	5 In Stock
12.50	750.00	775 - 1125	400 - 740	400 - 1125	#64-324	£177.73 Volume Pricing	6 In Stock
25.00	750.00	775 - 1125	400 - 740	400 - 1125	#64-332	£238.14 Volume Pricing	20+ In Stock
50.00	750.00	775 - 1125	400 - 740	400 - 1125	#84-728	£494.66 Volume Pricing	Contact Us
12.50	775.00	795 - 1155	400 - 760	400 - 1155	#86-096	£177.73 Volume Pricing	20+ In Stock
25.00	775.00	795 - 1155	400 - 760	400 - 1155	#86-104	£238.14 Volume Pricing	8 In Stock
50.00	775.00	795 - 1155	400 - 760	400 - 1155	#86-112	£494.66 Volume Pricing	6 In Stock
12.50	800.00	825 - 1190	400 - 790	400 - 1190	#64-325	£177.73 Volume Pricing	20+ In Stock
25.00	800.00	825 - 1190	400 - 790	400 - 1190	#64-333	£238.14 Volume Pricing	20+ In Stock
50.00	800.00	825 - 1190	400 - 790	400 - 1119	#84-729	£494.66 Volume Pricing	9 In Stock
12.50	825.00	850 - 1190	400 - 810	400 - 1190	#86-097	£177.73 Volume Pricing	5 In Stock
25.00	825.00	850 - 1190	400 - 810	400 - 1190	#86-105	£238.14 Volume Pricing	20+ In Stock
50.00	825.00	850 - 1190	400 - 810	400 - 1119	#86-113	£494.66 Volume Pricing	10 In Stock
12.50	850.00	880 - 1190	425 - 840	425 - 1190	#64-326	£177.73 Volume Pricing	13 In Stock
25.00	850.00	880 - 1190	425 - 840	425 - 1190	#64-334	£238.14 Volume Pricing	10 In Stock
50.00	850.00	880 - 1190	425 - 840	425 - 1119	#84-730	£494.66 Volume Pricing	13 In Stock
12.50	875.00	905 - 1220	425 - 860	425 - 1220	#86-098	£177.73 Volume Pricing	9 In Stock
25.00	875.00	905 - 1220	425 - 860	425 - 1220	#86-106	£238.14 Volume Pricing	20+ In Stock
50.00	875.00	905 - 1220	425 - 860	425 - 1220	#86-114	£494.66 Volume Pricing	5 In Stock
12.50	900.00	930 - 1250	425 - 890	425 - 1250	#64-327	£177.73 Volume Pricing	Contact Us
25.00	900.00	930 - 1250	425 - 890	425 - 1250	#64-335	£238.14 Volume Pricing	7 In Stock

50.00	900.00	930 - 1250	425 - 890	425 - 1250	#84-731	£494.66 Volume Pricing	6 In Stock
12.50	925.00	955 - 1290	445 - 910	445 - 1290	#86-099	£177.73 Volume Pricing	15 In Stock
25.00	925.00	955 - 1290	445 - 910	445 - 1290	#86-107	£238.14 Volume Pricing	14 In Stock
50.00	925.00	955 - 1290	445 - 910	445 - 1290	#86-115	£494.66 Volume Pricing	6 In Stock
12.50	950.00	980 - 1325	450 - 939	450 - 1325	#64-328	£177.73 Volume Pricing	12 In Stock
25.00	950.00	980 - 1325	450 - 939	450 - 1325	#64-336	£238.14 Volume Pricing	20+ In Stock
50.00	950.00	980 - 1325	450 - 939	450 - 1325	#84-732	£494.66 Volume Pricing	5 In Stock
12.50	975.00	1005 - 1365	465 - 960	465 - 1365	#86-100	£177.73 Volume Pricing	17 In Stock
25.00	975.00	1005 - 1365	465 - 960	465 - 1365	#86-108	£238.14 Volume Pricing	7 In Stock
50.00	975.00	1005 - 1365	465 - 960	465 - 1365	#86-116	£494.66 Volume Pricing	3 In Stock
12.50	1,000.00	1035 - 1400	465 - 988	465 - 1400	#64-329	£186.48 Volume Pricing	20+ In Stock
25.00	1,000.00	1035 - 1400	465 - 988	465 - 1400	#64-337	£247.77 Volume Pricing	20+ In Stock
50.00	1,000.00	1035 - 1400	465 - 988	465 - 1400	#84-733	£503.41 Volume Pricing	8 In Stock
12.50	1,025.00	1060 - 1430	490 - 1010	490 - 1430	#86-101	£186.48 Volume Pricing	17 In Stock
25.00	1,025.00	1060 - 1430	490 - 1010	490 - 1430	#86-109	£247.77 Volume Pricing	4 In Stock
50.00	1,025.00	1060 - 1430	490 - 1010	490 - 1430	#86-117	£503.41 Volume Pricing	2 In Stock
12.50	1,050.00	1085 - 1460	485 - 1036	485 - 1460	#64-330	£186.48 Volume Pricing	14 In Stock
25.00	1,050.00	1085 - 1460	485 - 1036	485 - 1460	#64-338	£247.77 Volume Pricing	15 In Stock
50.00	1,050.00	1085 - 1460	485 - 1036	485 - 1460	#84-734	£503.41 Volume Pricing	4 In Stock
12.50	1,075.00	1110 - 1495	505 - 1060	505 - 1495	#86-102	£186.48 Volume Pricing	6 In Stock
25.00	1,075.00	1110 - 1495	505 - 1060	505 - 1495	#86-110	£247.77 Volume Pricing	14 In Stock
50.00	1,075.00	1110 - 1495	505 - 1060	505 - 1495	#86-118	£503.41 Volume Pricing	2 In Stock

12.50	1,100.00	1140 - 1530	510 - 1085	510 - 1530	#64-331	£186.48 Volume Pricing	1 In Stock
25.00	1,100.00	1140 - 1530	510 - 1085	510 - 1530	#64-339	£247.77 Volume Pricing	15 In Stock
50.00	1,100.00	1140 - 1530	510 - 1085	510 - 1530	#84-735	£503.41 Volume Pricing	5 In Stock
12.50	1,150.00	1190 - 1650	535 - 1135	535 - 1650	#89-669	£186.48 Volume Pricing	20+ In Stock
25.00	1,150.00	1190 - 1650	535 - 1135	535 - 1650	#89-573	£247.77 Volume Pricing	20+ In Stock
50.00	1,150.00	1190 - 1650	535 - 1135	535 - 1650	#89-677	£503.41 Volume Pricing	5 In Stock
12.50	1,200.00	1240 - 1650	550 - 1185	550 - 1650	#89-670	£186.48 Volume Pricing	2 In Stock
25.00	1,200.00	1240 - 1650	550 - 1185	550 - 1650	#89-674	£247.77 Volume Pricing	5 In Stock
50.00	1,200.00	1240 - 1650	550 - 1185	550 - 1650	#89-678	£503.41 Volume Pricing	2 In Stock
12.50	1,250.00	1290 - 1650	575 - 1235	575 - 1650	#89-671	£186.48 Volume Pricing	2 In Stock
25.00	1,250.00	1290 - 1650	575 - 1235	575 - 1650	#89-675	£247.77 Volume Pricing	5 In Stock
50.00	1,250.00	1290 - 1650	575 - 1235	575 - 1650	#89-679	£503.41 Volume Pricing	2 In Stock
12.50	1,300.00	1340 - 1650	600 - 1285	600 - 1650	#89-672	£186.48 Volume Pricing	20+ In Stock
25.00	1,300.00	1340 - 1650	600 - 1285	600 - 1650	#89-676	£247.77 Volume Pricing	11 In Stock
50.00	1,300.00	1340 - 1650	600 - 1285	600 - 1650	#89-680	£503.41 Volume Pricing	Contact Us



Copyright 2023 | Edmund Optics, Ltd Unit 1, Opus Avenue, Nether Poppleton, York, YO26 6BL, UK
Phone: 1-800-363-1992 :
www.edmundoptics.com