

[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.
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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

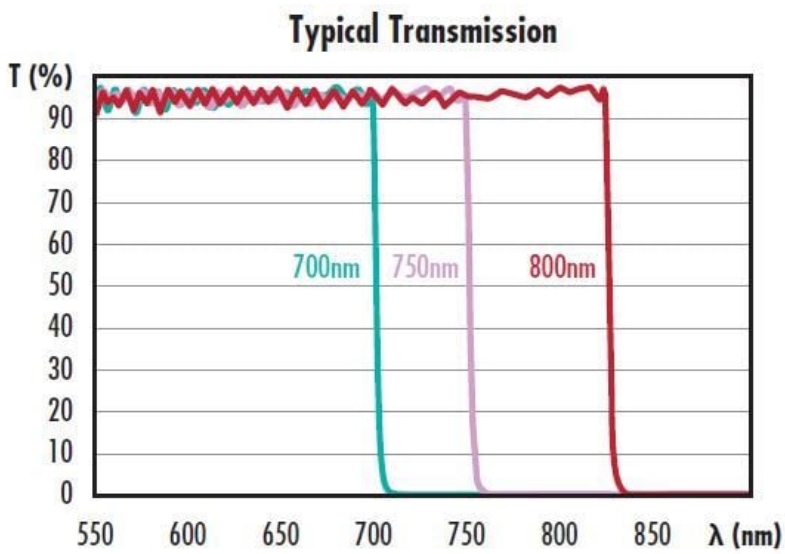
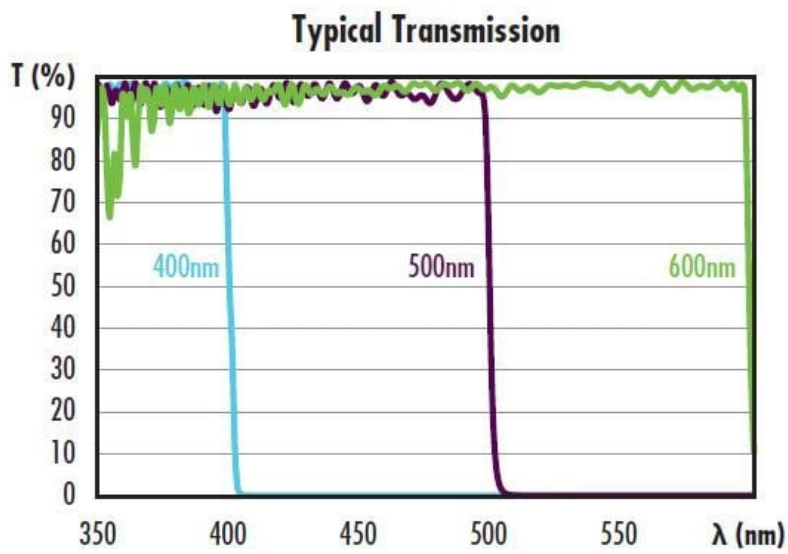
Optical Properties

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		

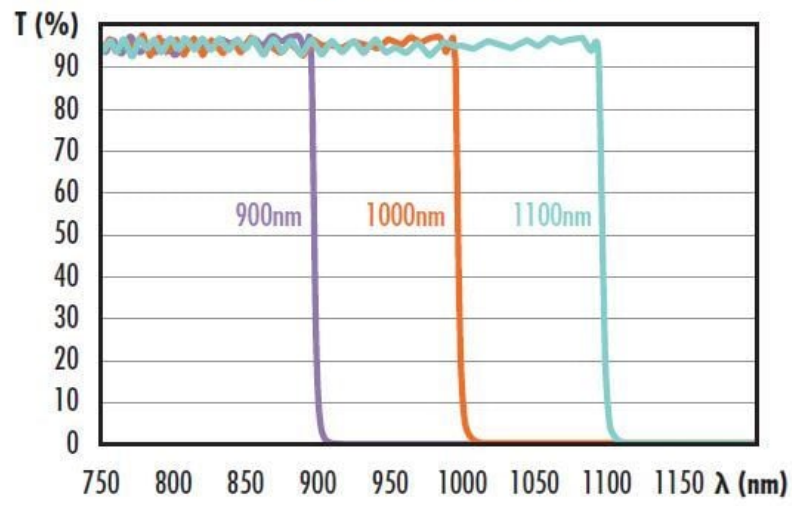
Environmental & Durability Factors

Environmental Durability:	Humidity per MIL-STD-810H, Section 507.6 Temperature per MIL-STD-810H, Section 501.7 and 502.7
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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	€198,79 Volume Pricing	13 In Stock
25.00	400.00	410 - 610	300 - 392	300 - 610	#84-702	€268,83 Volume Pricing	3 In Stock
50.00	400.00	410 - 610	300 - 392	300 - 610	#84-715	€570,62 Volume Pricing	9 In Stock
12.50	425.00	435 - 635	300 - 417	300 - 635	#84-690	€198,79 Volume Pricing	20+ In Stock
25.00	425.00	435 - 635	300 - 417	300 - 635	#84-703	€268,83 Volume Pricing	15 In Stock
50.00	425.00	435 - 635	300 - 417	300 - 635	#84-716	€570,62 Volume Pricing	5 In Stock
12.50	450.00	460 - 660	300 - 441	300 - 660	#84-691	€198,79 Volume Pricing	5 In Stock
25.00	450.00	460 - 660	300 - 441	300 - 660	#84-704	€268,83 Volume Pricing	14 In Stock
50.00	450.00	460 - 660	300 - 441	300 - 660	#84-717	€570,62 Volume Pricing	4 In Stock
12.50	475.00	485 - 685	300 - 466	300 - 685	#84-692	€198,79 Volume Pricing	13 In Stock
25.00	475.00	485 - 685	300 - 466	300 - 685	#84-705	€268,83 Volume Pricing	9 In Stock
50.00	475.00	485 - 685	300 - 466	300 - 685	#84-718	€570,62 Volume Pricing	5 In Stock
12.50	500.00	512 - 715	300 - 490	300 - 715	#84-693	€198,79 Volume Pricing	20+ In Stock
25.00	500.00	512 - 715	300 - 490	300 - 715	#84-706	€268,83 Volume Pricing	20+ In Stock
50.00	500.00	512 - 715	300 - 490	300 - 715	#84-719	€570,62 Volume Pricing	8 In Stock
12.50	525.00	537 - 740	300 - 515	300 - 740	#84-694	€198,79 Volume Pricing	20+ In Stock
25.00	525.00	537 - 740	300 - 515	300 - 740	#84-707	€268,83 Volume Pricing	6 In Stock
50.00	525.00	537 - 740	300 - 515	300 - 740	#84-720	€570,62 Volume Pricing	12 In Stock

12.50	550.00	562 - 825	350 - 539	350 - 825	#84-695	€198,79 Volume Pricing	17 In Stock
25.00	550.00	562 - 825	350 - 539	350 - 825	#84-708	€268,83 Volume Pricing	20+ In Stock
50.00	550.00	562 - 825	350 - 539	350 - 825	#84-721	€570,62 Volume Pricing	3 In Stock
12.50	575.00	587 - 850	350 - 564	350 - 850	#84-696	€198,79 Volume Pricing	8 In Stock
25.00	575.00	587 - 850	350 - 564	350 - 850	#84-709	€268,83 Volume Pricing	20+ In Stock
50.00	575.00	587 - 850	350 - 564	350 - 850	#84-722	€570,62 Volume Pricing	2 In Stock
12.50	600.00	614 - 900	350 - 587	350 - 900	#84-697	€198,79 Volume Pricing	Contact Us
25.00	600.00	614 - 900	350 - 587	350 - 900	#84-710	€268,83 Volume Pricing	16 In Stock
50.00	600.00	614 - 900	350 - 587	350 - 900	#84-723	€570,62 Volume Pricing	5 In Stock
12.50	625.00	639 - 925	350 - 612	350 - 925	#84-698	€198,79 Volume Pricing	12 In Stock
25.00	625.00	639 - 925	350 - 612	350 - 925	#84-711	€268,83 Volume Pricing	6 In Stock
50.00	625.00	639 - 925	350 - 612	350 - 925	#84-724	€570,62 Volume Pricing	9 In Stock
12.50	650.00	665 - 960	350 - 636	350 - 960	#84-699	€198,79 Volume Pricing	20+ In Stock
25.00	650.00	665 - 960	350 - 636	350 - 960	#84-712	€268,83 Volume Pricing	Contact Us
50.00	650.00	665 - 960	350 - 636	350 - 960	#84-725	€570,62 Volume Pricing	20+ In Stock
12.50	675.00	690 - 1000	350 - 661	350 - 1000	#84-700	€198,79 Volume Pricing	20+ In Stock
25.00	675.00	690 - 1000	350 - 661	350 - 1000	#84-713	€268,83 Volume Pricing	20+ In Stock
50.00	675.00	690 - 1000	350 - 661	350 - 1000	#84-726	€570,62 Volume Pricing	8 In Stock
12.50	700.00	715 - 1050	400 - 685	400 - 1050	#84-701	€198,79 Volume Pricing	20+ In Stock
25.00	700.00	715 - 1050	400 - 685	400 - 1050	#84-714	€268,83 Volume Pricing	20+ In Stock
50.00	700.00	715 - 1050	400 - 685	400 - 1050	#84-727	€570,62 Volume Pricing	Contact Us
12.50	725.00	740 - 1090	400 - 710	400 - 1090	#86-095	€209,09 Volume Pricing	16 In Stock

25.00	725.00	740 - 1090	400 - 710	400 - 1090	#86-103	€280,16 Volume Pricing	2 In Stock
50.00	725.00	740 - 1090	400 - 710	400 - 1090	#86-111	€581,95 Volume Pricing	7 In Stock
12.50	750.00	775 - 1125	400 - 740	400 - 1125	#64-324	€209,09 Volume Pricing	5 In Stock
25.00	750.00	775 - 1125	400 - 740	400 - 1125	#64-332	€280,16 Volume Pricing	20+ In Stock
50.00	750.00	775 - 1125	400 - 740	400 - 1125	#84-728	€581,95 Volume Pricing	2 In Stock
12.50	775.00	795 - 1155	400 - 760	400 - 1155	#86-096	€209,09 Volume Pricing	20+ In Stock
25.00	775.00	795 - 1155	400 - 760	400 - 1155	#86-104	€280,16 Volume Pricing	12 In Stock
50.00	775.00	795 - 1155	400 - 760	400 - 1155	#86-112	€581,95 Volume Pricing	6 In Stock
12.50	800.00	825 - 1190	400 - 790	400 - 1190	#64-325	€209,09 Volume Pricing	20+ In Stock
25.00	800.00	825 - 1190	400 - 790	400 - 1190	#64-333	€280,16 Volume Pricing	20+ In Stock
50.00	800.00	825 - 1190	400 - 790	400 - 1119	#84-729	€581,95 Volume Pricing	9 In Stock
12.50	825.00	850 - 1190	400 - 810	400 - 1190	#86-097	€209,09 Volume Pricing	5 In Stock
25.00	825.00	850 - 1190	400 - 810	400 - 1190	#86-105	€280,16 Volume Pricing	20+ In Stock
50.00	825.00	850 - 1190	400 - 810	400 - 1119	#86-113	€581,95 Volume Pricing	11 In Stock
12.50	850.00	880 - 1190	425 - 840	425 - 1190	#64-326	€209,09 Volume Pricing	13 In Stock
25.00	850.00	880 - 1190	425 - 840	425 - 1190	#64-334	€280,16 Volume Pricing	13 In Stock
50.00	850.00	880 - 1190	425 - 840	425 - 1119	#84-730	€581,95 Volume Pricing	14 In Stock
12.50	875.00	905 - 1220	425 - 860	425 - 1220	#86-098	€209,09 Volume Pricing	11 In Stock
25.00	875.00	905 - 1220	425 - 860	425 - 1220	#86-106	€280,16 Volume Pricing	20+ In Stock
50.00	875.00	905 - 1220	425 - 860	425 - 1220	#86-114	€581,95 Volume Pricing	5 In Stock
12.50	900.00	930 - 1250	425 - 890	425 - 1250	#64-327	€209,09 Volume Pricing	3 In Stock
25.00	900.00	930 - 1250	425 - 890	425 - 1250	#64-335	€280,16 Volume Pricing	7 In Stock

50.00	900.00	930 - 1250	425 - 890	425 - 1250	#84-731	€581,95 Volume Pricing	8 In Stock
12.50	925.00	955 - 1290	445 - 910	445 - 1290	#86-099	€209,09 Volume Pricing	20+ In Stock
25.00	925.00	955 - 1290	445 - 910	445 - 1290	#86-107	€280,16 Volume Pricing	14 In Stock
50.00	925.00	955 - 1290	445 - 910	445 - 1290	#86-115	€581,95 Volume Pricing	6 In Stock
12.50	950.00	980 - 1325	450 - 939	450 - 1325	#64-328	€209,09 Volume Pricing	12 In Stock
25.00	950.00	980 - 1325	450 - 939	450 - 1325	#64-336	€280,16 Volume Pricing	20+ In Stock
50.00	950.00	980 - 1325	450 - 939	450 - 1325	#84-732	€581,95 Volume Pricing	5 In Stock
12.50	975.00	1005 - 1365	465 - 960	465 - 1365	#86-100	€209,09 Volume Pricing	Contact Us
25.00	975.00	1005 - 1365	465 - 960	465 - 1365	#86-108	€280,16 Volume Pricing	7 In Stock
50.00	975.00	1005 - 1365	465 - 960	465 - 1365	#86-116	€581,95 Volume Pricing	3 In Stock
12.50	1,000.00	1035 - 1400	465 - 988	465 - 1400	#64-329	€219,39 Volume Pricing	20+ In Stock
25.00	1,000.00	1035 - 1400	465 - 988	465 - 1400	#64-337	€291,49 Volume Pricing	20+ In Stock
50.00	1,000.00	1035 - 1400	465 - 988	465 - 1400	#84-733	€592,25 Volume Pricing	8 In Stock
12.50	1,025.00	1060 - 1430	490 - 1010	490 - 1430	#86-101	€219,39 Volume Pricing	17 In Stock
25.00	1,025.00	1060 - 1430	490 - 1010	490 - 1430	#86-109	€291,49 Volume Pricing	4 In Stock
50.00	1,025.00	1060 - 1430	490 - 1010	490 - 1430	#86-117	€592,25 Volume Pricing	2 In Stock
12.50	1,050.00	1085 - 1460	485 - 1036	485 - 1460	#64-330	€219,39 Volume Pricing	14 In Stock
25.00	1,050.00	1085 - 1460	485 - 1036	485 - 1460	#64-338	€291,49 Volume Pricing	15 In Stock
50.00	1,050.00	1085 - 1460	485 - 1036	485 - 1460	#84-734	€592,25 Volume Pricing	8 In Stock
12.50	1,075.00	1110 - 1495	505 - 1060	505 - 1495	#86-102	€219,39 Volume Pricing	6 In Stock
25.00	1,075.00	1110 - 1495	505 - 1060	505 - 1495	#86-110	€291,49 Volume Pricing	14 In Stock
50.00	1,075.00	1110 - 1495	505 - 1060	505 - 1495	#86-118	€592,25 Volume Pricing	2 In Stock

12.50	1,100.00	1140 - 1530	510 - 1085	510 - 1530	#64-331	€219,39 Volume Pricing	1 In Stock
25.00	1,100.00	1140 - 1530	510 - 1085	510 - 1530	#64-339	€291,49 Volume Pricing	15 In Stock
50.00	1,100.00	1140 - 1530	510 - 1085	510 - 1530	#84-735	€592,25 Volume Pricing	5 In Stock
12.50	1,150.00	1190 - 1650	535 - 1135	535 - 1650	#89-669	€219,39 Volume Pricing	20+ In Stock
25.00	1,150.00	1190 - 1650	535 - 1135	535 - 1650	#89-573	€291,49 Volume Pricing	20+ In Stock
50.00	1,150.00	1190 - 1650	535 - 1135	535 - 1650	#89-677	€592,25 Volume Pricing	5 In Stock
12.50	1,200.00	1240 - 1650	550 - 1185	550 - 1650	#89-670	€219,39 Volume Pricing	2 In Stock
25.00	1,200.00	1240 - 1650	550 - 1185	550 - 1650	#89-674	€291,49 Volume Pricing	Contact Us
50.00	1,200.00	1240 - 1650	550 - 1185	550 - 1650	#89-678	€592,25 Volume Pricing	2 In Stock
12.50	1,250.00	1290 - 1650	575 - 1235	575 - 1650	#89-671	€219,39 Volume Pricing	2 In Stock
25.00	1,250.00	1290 - 1650	575 - 1235	575 - 1650	#89-675	€291,49 Volume Pricing	8 In Stock
50.00	1,250.00	1290 - 1650	575 - 1235	575 - 1650	#89-679	€592,25 Volume Pricing	2 In Stock
12.50	1,300.00	1340 - 1650	600 - 1285	600 - 1650	#89-672	€219,39 Volume Pricing	20+ In Stock
25.00	1,300.00	1340 - 1650	600 - 1285	600 - 1650	#89-676	€291,49 Volume Pricing	5 In Stock
50.00	1,300.00	1340 - 1650	600 - 1285	600 - 1650	#89-680	€592,25 Volume Pricing	Contact Us



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