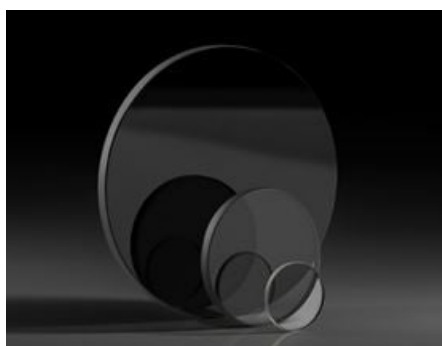


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Anti-Reflection (AR) Coated HOYA Absorptive Neutral Density (ND) Filters

See More by [Hoya](#)



- Optical Densities from 0.1 to 4.0
- VIS 0°, NIR I, and NIR II Coating Options
- 12.5, 25, and 50mm Diameter Sizes
- Uncoated [HOYA](#) or [SCHOTT](#) ND Filters Also Available

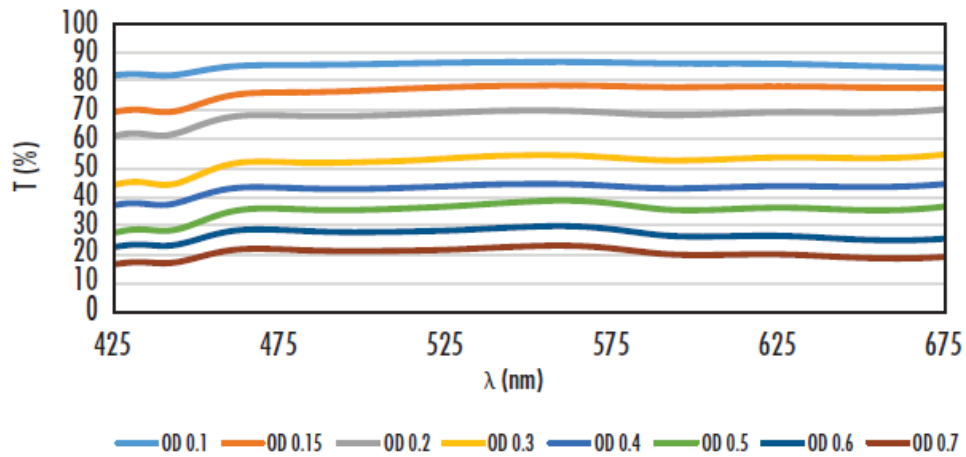
Common Specifications

Physical & Mechanical Properties

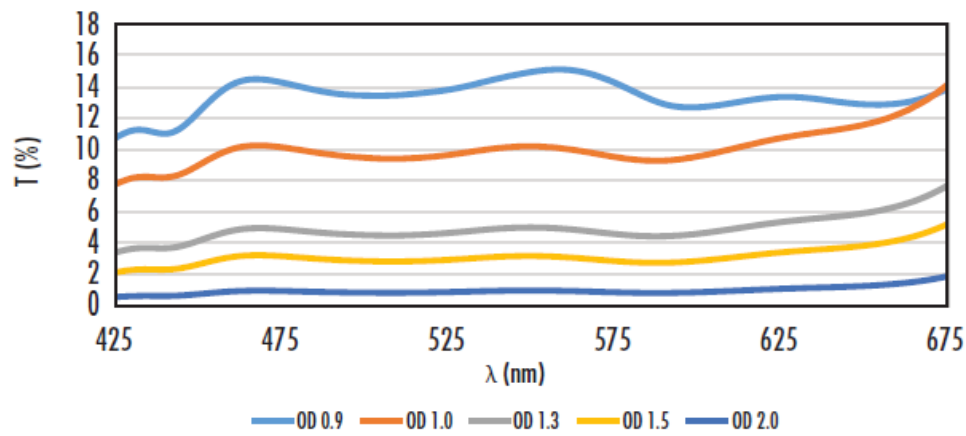
Dimensional Tolerance (mm): ±0.1	Parallelism (mm): <0.02
Optical Properties	
Substrate: ND Filter Glass	Surface Quality: 80-50
Blocking Wavelength Range (nm): 400 - 700	

Technical Information

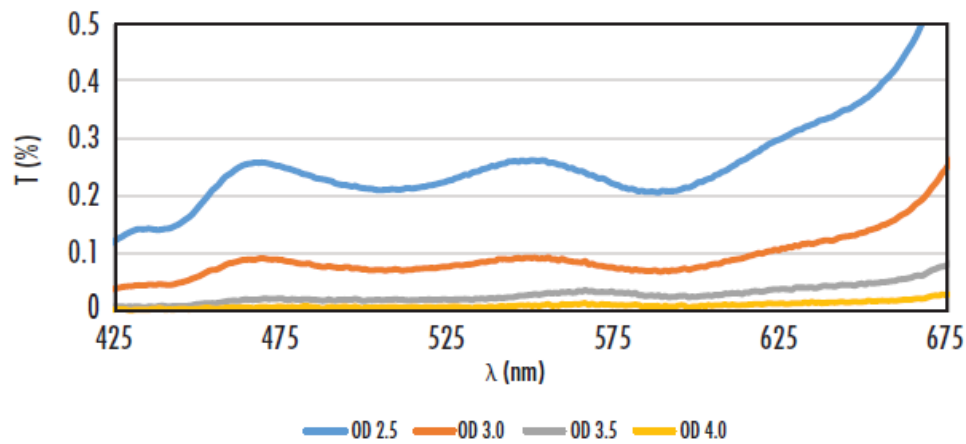
VIS 0° Coated HOYA ND Filters



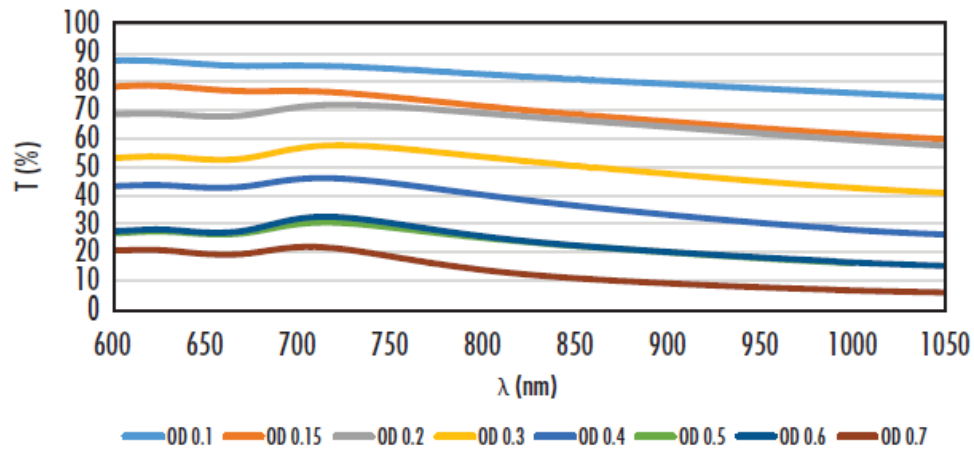
VIS 0° Coated HOYA ND Filters



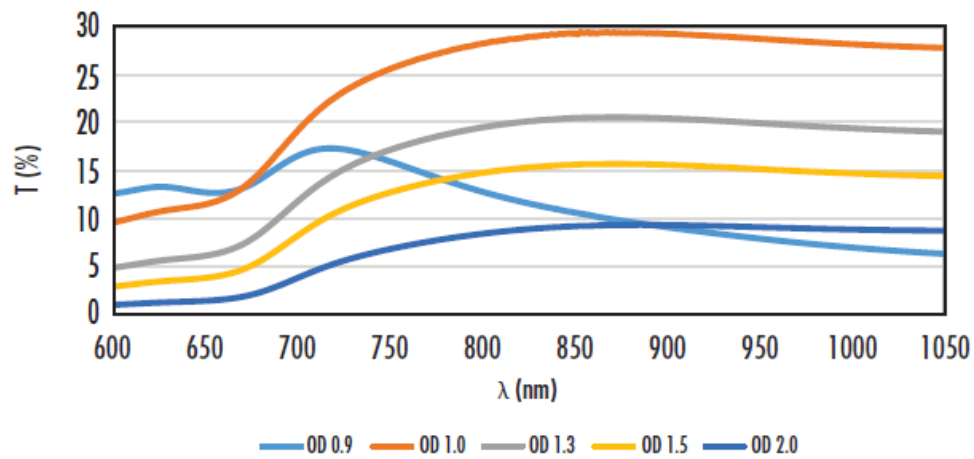
VIS 0° Coated HOYA ND Filters



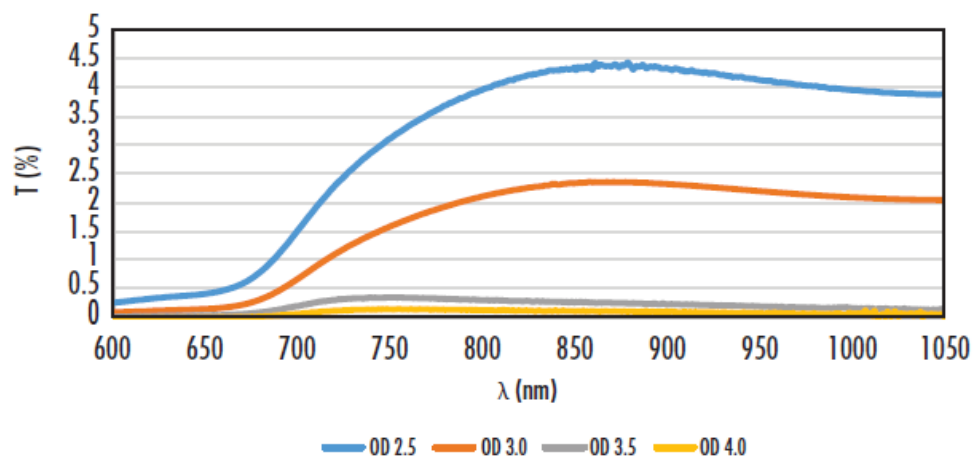
NIR I Coated HOYA ND Filters



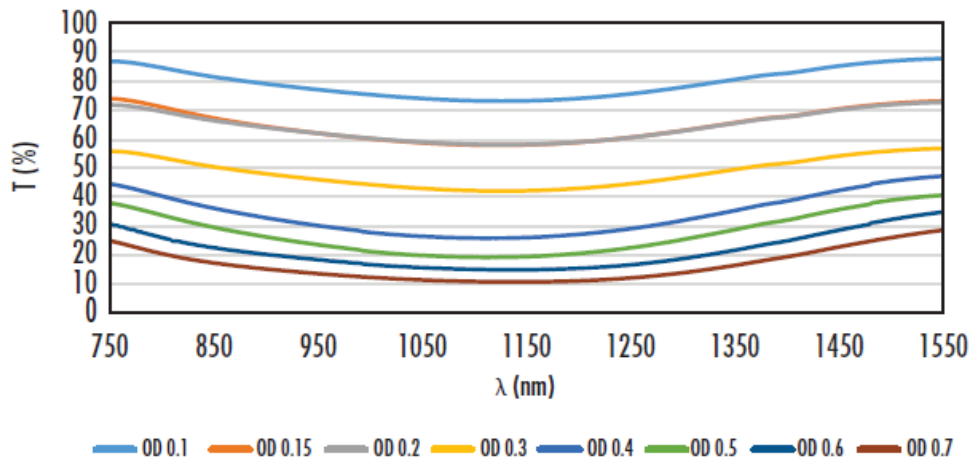
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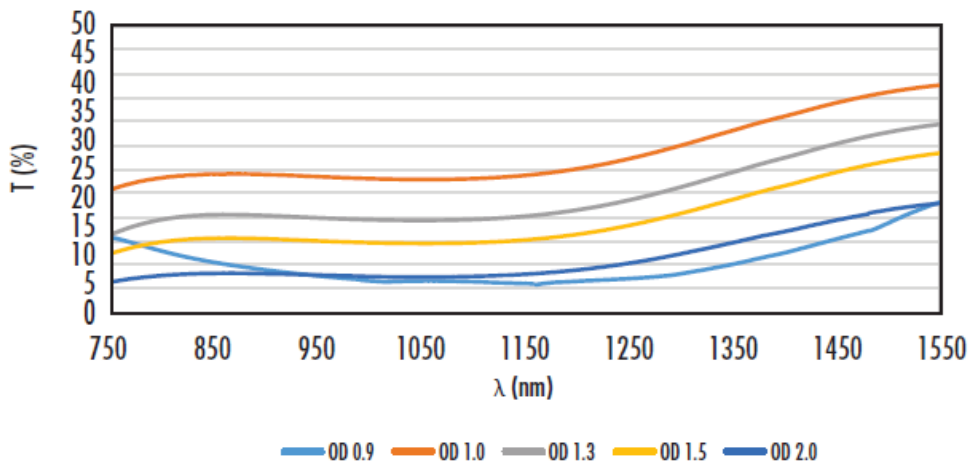
NIR I Coated HOYA ND Filters



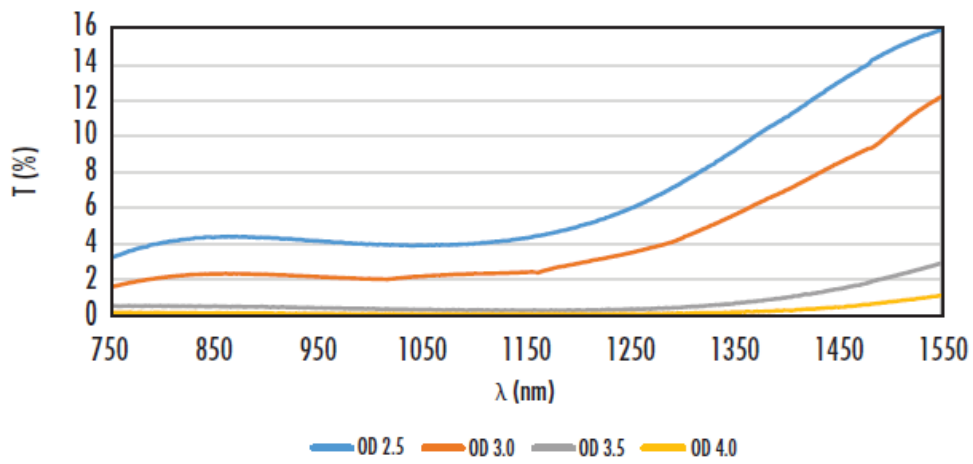
NIR II Coated HOYA ND Filters



NIR II Coated HOYA ND Filters



NIR II Coated HOYA ND Filters



Products

Dia. (mm)	Coating	Optical Density OD (Average)	Nominal OD @ Center of Coating	Wavelength Range (nm)	Stock Number	Price	Buy
12.50	VIS 0° (425- 675nm)	0.1	0.08	425 - 675	#13-078	£50.40 Volume Pricing	1 In Stock
25.00	VIS 0° (425- 675nm)	0.1	0.08	425 - 675	#13-095	£69.60 Volume Pricing	8 In Stock
50.00	VIS 0° (425- 675nm)	0.1	0.08	425 - 675	#13-112	£148.00 Volume Pricing	3 In Stock
12.50	VIS 0° (425- 675nm)	0.15	0.13	425 - 675	#13-079	£50.40 Volume Pricing	1 In Stock
25.00	VIS 0° (425- 675nm)	0.15	0.13	425 - 675	#13-096	£69.60 Volume Pricing	10 In Stock
50.00	VIS 0° (425- 675nm)	0.15	0.13	425 - 675	#13-113	£148.00 Volume Pricing	14 In Stock
12.50	VIS 0° (425- 675nm)	0.2	0.18	425 - 675	#13-080	£50.40 Volume Pricing	20+ In Stock
25.00	VIS 0° (425- 675nm)	0.2	0.18	425 - 675	#13-097	£69.60 Volume Pricing	3 In Stock
50.00	VIS 0° (425- 675nm)	0.2	0.18	425 - 675	#13-114	£148.00 Volume Pricing	6 In Stock
12.50	VIS 0° (425- 675nm)	0.3	0.28	425 - 675	#13-081	£50.40 Volume Pricing	9 In Stock
25.00	VIS 0° (425- 675nm)	0.3	0.28	425 - 675	#13-098	£69.60 Volume Pricing	15 In Stock

50.00	VIS 0° (425-675nm)	0.3	0.28	425 - 675	#13-115	£148.00 Volume Pricing	4 In Stock
12.50	VIS 0° (425-675nm)	0.4	0.35	425 - 675	#13-082	£50.40 Volume Pricing	5 In Stock
25.00	VIS 0° (425-675nm)	0.4	0.35	425 - 675	#13-099	£69.60 Volume Pricing	13 In Stock
50.00	VIS 0° (425-675nm)	0.4	0.35	425 - 675	#13-116	£148.00 Volume Pricing	1 In Stock
12.50	VIS 0° (425-675nm)	0.5	0.43	425 - 675	#13-083	£50.40 Volume Pricing	9 In Stock
25.00	VIS 0° (425-675nm)	0.5	0.43	425 - 675	#13-100	£69.60 Volume Pricing	13 In Stock
50.00	VIS 0° (425-675nm)	0.5	0.43	425 - 675	#13-117	£148.00 Volume Pricing	3 In Stock
12.50	VIS 0° (425-675nm)	0.6	0.53	425 - 675	#13-084	£50.40 Volume Pricing	3 In Stock
25.00	VIS 0° (425-675nm)	0.6	0.53	425 - 675	#13-101	£69.60 Volume Pricing	14 In Stock
50.00	VIS 0° (425-675nm)	0.6	0.53	425 - 675	#13-118	£148.00 Volume Pricing	5 In Stock
12.50	VIS 0° (425-675nm)	0.7	0.63	425 - 675	#13-085	£50.40 Volume Pricing	8 In Stock
25.00	VIS 0° (425-675nm)	0.7	0.63	425 - 675	#13-102	£69.60 Volume Pricing	5 In Stock
50.00	VIS 0° (425-675nm)	0.7	0.63	425 - 675	#13-119	£148.00 Volume Pricing	5 In Stock
12.50	VIS 0° (425-675nm)	0.9	0.86	425 - 675	#13-086	£50.40 Volume Pricing	7 In Stock

25.00	VIS 0° (425-675nm)	0.9	0.86	425 - 675	#13-103	£69.60 Volume Pricing	13 In Stock
50.00	VIS 0° (425-675nm)	0.9	0.86	425 - 675	#13-120	£148.00 Volume Pricing	1 In Stock
12.50	VIS 0° (425-675nm)	1	0.94	425 - 675	#13-087	£50.40 Volume Pricing	12 In Stock
25.00	VIS 0° (425-675nm)	1	0.94	425 - 675	#13-104	£69.60 Volume Pricing	20+ In Stock
50.00	VIS 0° (425-675nm)	1	0.94	425 - 675	#13-121	£148.00 Volume Pricing	5 In Stock
12.50	VIS 0° (425-675nm)	1.3	1.35	425 - 675	#13-088	£50.40 Volume Pricing	5 In Stock
25.00	VIS 0° (425-675nm)	1.3	1.35	425 - 675	#13-105	£69.60 Volume Pricing	1 In Stock
50.00	VIS 0° (425-675nm)	1.3	1.35	425 - 675	#13-122	£148.00 Volume Pricing	Contact Us
12.50	VIS 0° (425-675nm)	1.5	1.40	425 - 675	#13-089	£50.40 Volume Pricing	8 In Stock
25.00	VIS 0° (425-675nm)	1.5	1.40	425 - 675	#13-106	£69.60 Volume Pricing	15 In Stock
50.00	VIS 0° (425-675nm)	1.5	1.40	425 - 675	#13-123	£148.00 Volume Pricing	5 In Stock
12.50	VIS 0° (425-675nm)	2	1.85	425 - 675	#13-090	£50.40 Volume Pricing	5 In Stock
25.00	VIS 0° (425-675nm)	2	1.85	425 - 675	#13-107	£69.60 Volume Pricing	16 In Stock
50.00	VIS 0° (425-675nm)	2	1.85	425 - 675	#13-124	£148.00 Volume Pricing	6 In Stock

12.50	VIS 0° (425-675nm)	2.5	2.30	425 - 675	#13-091	£50.40 Volume Pricing	6 In Stock
25.00	VIS 0° (425-675nm)	2.5	2.30	425 - 675	#13-108	£69.60 Volume Pricing	8 In Stock
50.00	VIS 0° (425-675nm)	2.5	2.30	425 - 675	#13-125	£148.00 Volume Pricing	5 In Stock
12.50	VIS 0° (425-675nm)	3	2.77	425 - 675	#13-092	£50.40 Volume Pricing	6 In Stock
25.00	VIS 0° (425-675nm)	3	2.77	425 - 675	#13-109	£69.60 Volume Pricing	9 In Stock
50.00	VIS 0° (425-675nm)	3	2.77	425 - 675	#13-126	£148.00 Volume Pricing	3 In Stock
12.50	VIS 0° (425-675nm)	3.5	3.40	425 - 675	#13-093	£50.40 Volume Pricing	12 In Stock
25.00	VIS 0° (425-675nm)	3.5	3.40	425 - 675	#13-110	£69.60 Volume Pricing	13 In Stock
50.00	VIS 0° (425-675nm)	3.5	3.40	425 - 675	#13-127	£148.00 Volume Pricing	8 In Stock
12.50	VIS 0° (425-675nm)	4	3.60	425 - 675	#13-094	£50.40 Volume Pricing	3 In Stock
25.00	VIS 0° (425-675nm)	4	3.60	425 - 675	#13-111	£69.60 Volume Pricing	5 In Stock
50.00	VIS 0° (425-675nm)	4	3.60	425 - 675	#13-128	£148.00 Volume Pricing	5 In Stock
12.50	NIR I (600-1050nm)	0.1	0.14	600 - 1050	#13-146	£50.40 Volume Pricing	2 In Stock
25.00	NIR I (600-1050nm)	0.1	0.14	600 - 1050	#13-163	£69.60 Volume Pricing	12 In Stock

50.00	NIR I (600-1050nm)	0.1	0.14	600 - 1050	#13-180	£148.00 Volume Pricing	5 In Stock
12.50	NIR I (600-1050nm)	0.15	0.25	600 - 1050	#13-147	£50.40 Volume Pricing	9 In Stock
25.00	NIR I (600-1050nm)	0.15	0.25	600 - 1050	#13-164	£69.60 Volume Pricing	10 In Stock
50.00	NIR I (600-1050nm)	0.15	0.25	600 - 1050	#13-181	£148.00 Volume Pricing	5 In Stock
12.50	NIR I (600-1050nm)	0.2	0.26	600 - 1050	#13-148	£50.40 Volume Pricing	11 In Stock
25.00	NIR I (600-1050nm)	0.2	0.26	600 - 1050	#13-165	£69.60 Volume Pricing	11 In Stock
50.00	NIR I (600-1050nm)	0.2	0.26	600 - 1050	#13-182	£148.00 Volume Pricing	6 In Stock
12.50	NIR I (600-1050nm)	0.3	0.40	600 - 1050	#13-149	£50.40 Volume Pricing	3 In Stock
25.00	NIR I (600-1050nm)	0.3	0.40	600 - 1050	#13-166	£69.60 Volume Pricing	10 In Stock
50.00	NIR I (600-1050nm)	0.3	0.40	600 - 1050	#13-183	£148.00 Volume Pricing	8 In Stock
12.50	NIR I (600-1050nm)	0.4	0.48	600 - 1050	#13-150	£50.40 Volume Pricing	8 In Stock
25.00	NIR I (600-1050nm)	0.4	0.48	600 - 1050	#13-167	£69.60 Volume Pricing	13 In Stock
50.00	NIR I (600-1050nm)	0.4	0.48	600 - 1050	#13-184	£148.00 Volume Pricing	8 In Stock
12.50	NIR I (600-1050nm)	0.5	0.68	600 - 1050	#13-151	£50.40 Volume Pricing	5 In Stock

25.00	NIR I (600-1050nm)	0.5	0.68	600 - 1050	#13-168	£69.60 Volume Pricing	5 In Stock
50.00	NIR I (600-1050nm)	0.5	0.68	600 - 1050	#13-185	£148.00 Volume Pricing	5 In Stock
12.50	NIR I (600-1050nm)	0.6	0.84	600 - 1050	#13-152	£50.40 Volume Pricing	7 In Stock
25.00	NIR I (600-1050nm)	0.6	0.84	600 - 1050	#13-169	£69.60 Volume Pricing	12 In Stock
50.00	NIR I (600-1050nm)	0.6	0.84	600 - 1050	#13-186	£148.00 Volume Pricing	6 In Stock
12.50	NIR I (600-1050nm)	0.7	1.03	600 - 1050	#13-153	£50.40 Volume Pricing	6 In Stock
25.00	NIR I (600-1050nm)	0.7	1.03	600 - 1050	#13-170	£69.60 Volume Pricing	10 In Stock
50.00	NIR I (600-1050nm)	0.7	1.03	600 - 1050	#13-187	£148.00 Volume Pricing	6 In Stock
12.50	NIR I (600-1050nm)	0.9	1.02	600 - 1050	#13-154	£50.40 Volume Pricing	5 In Stock
25.00	NIR I (600-1050nm)	0.9	1.02	600 - 1050	#13-171	£69.60 Volume Pricing	14 In Stock
50.00	NIR I (600-1050nm)	0.9	1.02	600 - 1050	#13-188	£148.00 Volume Pricing	9 In Stock
12.50	NIR I (600-1050nm)	1	0.53	600 - 1050	#13-155	£50.40 Volume Pricing	5 In Stock
25.00	NIR I (600-1050nm)	1	0.53	600 - 1050	#13-172	£69.60 Volume Pricing	20+ In Stock
50.00	NIR I (600-1050nm)	1	0.53	600 - 1050	#13-189	£148.00 Volume Pricing	4 In Stock

12.50	NIR I (600-1050nm)	1.3	0.76	600 - 1050	#13-156	£50.40 Volume Pricing	9 In Stock
25.00	NIR I (600-1050nm)	1.3	0.76	600 - 1050	#13-173	£69.60 Volume Pricing	10 In Stock
50.00	NIR I (600-1050nm)	1.3	0.76	600 - 1050	#13-190	£148.00 Volume Pricing	10 In Stock
12.50	NIR I (600-1050nm)	1.5	0.78	600 - 1050	#13-157	£50.40 Volume Pricing	11 In Stock
25.00	NIR I (600-1050nm)	1.5	0.78	600 - 1050	#13-174	£69.60 Volume Pricing	10 In Stock
50.00	NIR I (600-1050nm)	1.5	0.78	600 - 1050	#13-191	£148.00 Volume Pricing	10 In Stock
12.50	NIR I (600-1050nm)	2	1.03	600 - 1050	#13-158	£50.40 Volume Pricing	20+ In Stock
25.00	NIR I (600-1050nm)	2	1.03	600 - 1050	#13-175	£69.60 Volume Pricing	7 In Stock
50.00	NIR I (600-1050nm)	2	1.03	600 - 1050	#13-192	£148.00 Volume Pricing	8 In Stock
12.50	NIR I (600-1050nm)	2.5	1.28	600 - 1050	#13-159	£50.40 Volume Pricing	8 In Stock
25.00	NIR I (600-1050nm)	2.5	1.28	600 - 1050	#13-176	£69.60 Volume Pricing	13 In Stock
50.00	NIR I (600-1050nm)	2.5	1.28	600 - 1050	#13-193	£148.00 Volume Pricing	7 In Stock
12.50	NIR I (600-1050nm)	3	1.53	600 - 1050	#13-160	£50.40 Volume Pricing	14 In Stock
25.00	NIR I (600-1050nm)	3	1.53	600 - 1050	#13-177	£69.60 Volume Pricing	20+ In Stock

50.00	NIR I (600-1050nm)	3	1.53	600 - 1050	#13-194	£148.00 Volume Pricing	2 In Stock
12.50	NIR I (600-1050nm)	3.5	2.51	600 - 1050	#13-161	£50.40 Volume Pricing	2 In Stock
25.00	NIR I (600-1050nm)	3.5	2.51	600 - 1050	#13-178	£69.60 Volume Pricing	5 In Stock
50.00	NIR I (600-1050nm)	3.5	2.51	600 - 1050	#13-195	£148.00 Volume Pricing	6 In Stock
12.50	NIR I (600-1050nm)	4	2.58	600 - 1050	#13-162	£50.40 Volume Pricing	7 In Stock
25.00	NIR I (600-1050nm)	4	2.58	600 - 1050	#13-179	£69.60 Volume Pricing	20+ In Stock
50.00	NIR I (600-1050nm)	4	2.58	600 - 1050	#13-196	£148.00 Volume Pricing	7 In Stock
12.50	NIR II (750-1550nm)	0.1	0.16	750 - 1550	#13-217	£50.40 Volume Pricing	12 In Stock
25.00	NIR II (750-1550nm)	0.1	0.16	750 - 1550	#13-235	£69.60 Volume Pricing	10 In Stock
50.00	NIR II (750-1550nm)	0.1	0.16	750 - 1550	#13-252	£148.00 Volume Pricing	3 In Stock
12.50	NIR II (750-1550nm)	0.15	0.29	750 - 1550	#13-218	£50.40 Volume Pricing	9 In Stock
25.00	NIR II (750-1550nm)	0.15	0.29	750 - 1550	#13-236	£69.60 Volume Pricing	12 In Stock
50.00	NIR II (750-1550nm)	0.15	0.29	750 - 1550	#13-253	£148.00 Volume Pricing	3 In Stock
12.50	NIR II (750-1550nm)	0.2	0.30	750 - 1550	#13-219	£50.40 Volume Pricing	11 In Stock

25.00	NIR II (750-1550nm)	0.2	0.30	750 - 1550	#13-237	£69.60 Volume Pricing	9 In Stock
50.00	NIR II (750-1550nm)	0.2	0.30	750 - 1550	#13-254	£148.00 Volume Pricing	6 In Stock
12.50	NIR II (750-1550nm)	0.3	0.47	750 - 1550	#13-220	£50.40 Volume Pricing	17 In Stock
25.00	NIR II (750-1550nm)	0.3	0.47	750 - 1550	#13-238	£69.60 Volume Pricing	8 In Stock
50.00	NIR II (750-1550nm)	0.3	0.47	750 - 1550	#13-255	£148.00 Volume Pricing	1 In Stock
12.50	NIR II (750-1550nm)	0.4	0.55	750 - 1550	#13-221	£50.40 Volume Pricing	14 In Stock
25.00	NIR II (750-1550nm)	0.4	0.55	750 - 1550	#13-239	£69.60 Volume Pricing	10 In Stock
50.00	NIR II (750-1550nm)	0.4	0.55	750 - 1550	#13-256	£148.00 Volume Pricing	7 In Stock
12.50	NIR II (750-1550nm)	0.5	0.79	750 - 1550	#13-223	£50.40 Volume Pricing	15 In Stock
25.00	NIR II (750-1550nm)	0.5	0.79	750 - 1550	#13-240	£69.60 Volume Pricing	6 In Stock
50.00	NIR II (750-1550nm)	0.5	0.79	750 - 1550	#13-257	£148.00 Volume Pricing	1 In Stock
12.50	NIR II (750-1550nm)	0.6	0.98	750 - 1550	#13-224	£50.40 Volume Pricing	10 In Stock
25.00	NIR II (750-1550nm)	0.6	0.98	750 - 1550	#13-241	£69.60 Volume Pricing	15 In Stock
50.00	NIR II (750-1550nm)	0.6	0.98	750 - 1550	#13-258	£148.00 Volume Pricing	7 In Stock

12.50	NIR II (750-1550nm)	0.7	1.21	750 - 1550	#13-225	£50.40 Volume Pricing	14 In Stock
25.00	NIR II (750-1550nm)	0.7	1.21	750 - 1550	#13-242	£69.60 Volume Pricing	13 In Stock
50.00	NIR II (750-1550nm)	0.7	1.21	750 - 1550	#13-259	£148.00 Volume Pricing	5 In Stock
12.50	NIR II (750-1550nm)	0.9	1.18	750 - 1550	#13-226	£50.40 Volume Pricing	7 In Stock
25.00	NIR II (750-1550nm)	0.9	1.18	750 - 1550	#13-243	£69.60 Volume Pricing	14 In Stock
50.00	NIR II (750-1550nm)	0.9	1.18	750 - 1550	#13-260	£148.00 Volume Pricing	7 In Stock
12.50	NIR II (750-1550nm)	1	0.53	750 - 1550	#13-227	£50.40 Volume Pricing	20+ In Stock
25.00	NIR II (750-1550nm)	1	0.53	750 - 1550	#13-244	£69.60 Volume Pricing	6 In Stock
50.00	NIR II (750-1550nm)	1	0.53	750 - 1550	#13-261	£148.00 Volume Pricing	Contact Us
12.50	NIR II (750-1550nm)	1.3	0.75	750 - 1550	#13-228	£50.40 Volume Pricing	20+ In Stock
25.00	NIR II (750-1550nm)	1.3	0.75	750 - 1550	#13-245	£69.60 Volume Pricing	10 In Stock
50.00	NIR II (750-1550nm)	1.3	0.75	750 - 1550	#13-262	£148.00 Volume Pricing	5 In Stock
12.50	NIR II (750-1550nm)	1.5	0.78	750 - 1550	#13-229	£50.40 Volume Pricing	14 In Stock
25.00	NIR II (750-1550nm)	1.5	0.78	750 - 1550	#13-246	£69.60 Volume Pricing	2 In Stock

50.00	NIR II (750-1550nm)	1.5	0.78	750 - 1550	#13-263	£148.00 Volume Pricing	4 In Stock
12.50	NIR II (750-1550nm)	2	1.02	750 - 1550	#13-230	£50.40 Volume Pricing	13 In Stock
25.00	NIR II (750-1550nm)	2	1.02	750 - 1550	#13-247	£69.60 Volume Pricing	2 In Stock
50.00	NIR II (750-1550nm)	2	1.02	750 - 1550	#13-264	£148.00 Volume Pricing	1 In Stock
12.50	NIR II (750-1550nm)	2.5	1.27	750 - 1550	#13-231	£50.40 Volume Pricing	11 In Stock
25.00	NIR II (750-1550nm)	2.5	1.27	750 - 1550	#13-248	£69.60 Volume Pricing	11 In Stock
50.00	NIR II (750-1550nm)	2.5	1.27	750 - 1550	#13-265	£148.00 Volume Pricing	9 In Stock
12.50	NIR II (750-1550nm)	3	1.52	750 - 1550	#13-232	£50.40 Volume Pricing	20+ In Stock
25.00	NIR II (750-1550nm)	3	1.52	750 - 1550	#13-249	£69.60 Volume Pricing	6 In Stock
50.00	NIR II (750-1550nm)	3	1.52	750 - 1550	#13-266	£148.00 Volume Pricing	3 In Stock
12.50	NIR II (750-1550nm)	3.5	2.77	750 - 1550	#13-233	£50.40 Volume Pricing	20+ In Stock
25.00	NIR II (750-1550nm)	3.5	2.77	750 - 1550	#13-250	£69.60 Volume Pricing	11 In Stock
50.00	NIR II (750-1550nm)	3.5	2.77	750 - 1550	#13-267	£148.00 Volume Pricing	4 In Stock
12.50	NIR II (750-1550nm)	4	2.88	750 - 1550	#13-234	£50.40 Volume Pricing	4 In Stock

25.00	NIR II (750-1550nm)	4	2.88	750 - 1550	#13-251	£69.60 Volume Pricing	8 In Stock
50.00	NIR II (750-1550nm)	4	2.88	750 - 1550	#13-268	£148.00 Volume Pricing	Contact Us



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