

Typical Measured Spectrum of Semrock FF409-Di03 Optical Filter

For wavelengths between 320 and 1120 nm, values near or below $3e-7$ (Optical Density 6.5) are measurement noise limited.

For wavelengths < 320 nm and > 1120 nm, values near or below $3e-6$ (Optical Density 5.5) are measurement noise limited.

Data format: Wavelength (nm) <tab> Transmission (0 to 1)

320.0	0.18754
320.2	0.17215
320.4	0.15808
320.6	0.14396
320.8	0.12862
321.0	0.11496
321.2	0.10062
321.4	0.08705
321.6	0.07387
321.8	0.06489
322.0	0.05737
322.2	0.051
322.4	0.04789
322.6	0.04506
322.8	0.04331
323.0	0.0418
323.2	0.04035
323.4	0.03871
323.6	0.03787
323.8	0.03577
324.0	0.03304
324.2	0.03021
324.4	0.02693
324.6	0.0242
324.8	0.02186
325.0	0.01948
325.2	0.01818
325.4	0.01723
325.6	0.01715
325.8	0.01676
326.0	0.01663
326.2	0.0175
326.4	0.01793
326.6	0.01818
326.8	0.01782
327.0	0.0178
327.2	0.01697
327.4	0.01593
327.6	0.01451
327.8	0.01319
328.0	0.01168
328.2	0.01058
328.4	0.00967
328.6	0.0092
328.8	0.00869
329.0	0.00871
329.2	0.00895

329.4 0.0092
329.6 0.00987
329.8 0.01008
330.0 0.01083
330.2 0.01114
330.4 0.01102
330.6 0.01096
330.8 0.01018
331.0 0.00946
331.2 0.00849
331.4 0.00765
331.6 0.00697
331.8 0.00649
332.0 0.00638
332.2 0.00605
332.4 0.00614
332.6 0.00665
332.8 0.00701
333.0 0.00754
333.2 0.00819
333.4 0.00883
333.6 0.00899
333.8 0.00928
334.0 0.00923
334.2 0.00855
334.4 0.00838
334.6 0.00746
334.8 0.00685
335.0 0.00653
335.2 0.00656
335.4 0.00624
335.6 0.00645
335.8 0.00648
336.0 0.00684
336.2 0.00717
336.4 0.00793
336.6 0.00852
336.8 0.00916
337.0 0.00956
337.2 0.00961
337.4 0.0097
337.6 0.00908
337.8 0.00866
338.0 0.00787
338.2 0.00704
338.4 0.00663
338.6 0.00611
338.8 0.00578
339.0 0.00576
339.2 0.00579
339.4 0.00619
339.6 0.00691
339.8 0.00755
340.0 0.00834

340.2	0.009
340.4	0.00967
340.6	0.00977
340.8	0.00988
341.0	0.00946
341.2	0.00885
341.4	0.00801
341.6	0.0072
341.8	0.00632
342.0	0.0059
342.2	0.00555
342.4	0.00529
342.6	0.00545
342.8	0.00561
343.0	0.00605
343.2	0.00665
343.4	0.00727
343.6	0.00786
343.8	0.00857
344.0	0.00895
344.2	0.00906
344.4	0.00879
344.6	0.00836
344.8	0.00765
345.0	0.00683
345.2	0.00595
345.4	0.00546
345.6	0.00489
345.8	0.00456
346.0	0.00444
346.2	0.00444
346.4	0.00481
346.6	0.00511
346.8	0.00541
347.0	0.00604
347.2	0.00656
347.4	0.00714
347.6	0.00728
347.8	0.00751
348.0	0.00728
348.2	0.00687
348.4	0.00642
348.6	0.00571
348.8	0.00498
349.0	0.00446
349.2	0.00401
349.4	0.0036
349.6	0.0034
349.8	0.0033
350.0	0.00346
350.2	0.00371
350.4	0.00389
350.6	0.00428
350.8	0.00468

351.0 0.00515
351.2 0.0055
351.4 0.00582
351.6 0.00599
351.8 0.00593
352.0 0.00567
352.2 0.00518
352.4 0.00472
352.6 0.00422
352.8 0.00367
353.0 0.00321
353.2 0.00294
353.4 0.0028
353.6 0.00257
353.8 0.00257
354.0 0.00273
354.2 0.00293
354.4 0.00306
354.6 0.00341
354.8 0.00372
355.0 0.00414
355.2 0.0046
355.4 0.00486
355.6 0.00507
355.8 0.00507
356.0 0.00488
356.2 0.00458
356.4 0.00424
356.6 0.00366
356.8 0.00324
357.0 0.00286
357.2 0.00255
357.4 0.00231
357.6 0.00225
357.8 0.0022
358.0 0.00224
358.2 0.00234
358.4 0.00257
358.6 0.00279
358.8 0.00313
359.0 0.00357
359.2 0.00395
359.4 0.00441
359.6 0.00468
359.8 0.0049
360.0 0.00488
360.2 0.00489
360.4 0.00447
360.6 0.00399
360.8 0.00352
361.0 0.00304
361.2 0.00268
361.4 0.00237
361.6 0.00227

361.8	0.00207
362.0	0.00202
362.2	0.00212
362.4	0.00224
362.6	0.00231
362.8	0.00252
363.0	0.0029
363.2	0.00347
363.4	0.00395
363.6	0.00457
363.8	0.00483
364.0	0.0053
364.2	0.00552
364.4	0.00542
364.6	0.00522
364.8	0.00465
365.0	0.00427
365.2	0.00386
365.4	0.00323
365.6	0.0028
365.8	0.00251
366.0	0.00232
366.2	0.00217
366.4	0.00204
366.6	0.00208
366.8	0.00225
367.0	0.00234
367.2	0.00257
367.4	0.0031
367.6	0.0037
367.8	0.00452
368.0	0.00539
368.2	0.00603
368.4	0.00644
368.6	0.00668
368.8	0.00658
369.0	0.00612
369.2	0.00554
369.4	0.00474
369.6	0.00401
369.8	0.00328
370.0	0.00285
370.2	0.00245
370.4	0.00216
370.6	0.00206
370.8	0.00212
371.0	0.00208
371.2	0.00233
371.4	0.00271
371.6	0.00346
371.8	0.00433
372.0	0.00537
372.2	0.00646
372.4	0.00722

372.6	0.00782
372.8	0.00797
373.0	0.00779
373.2	0.00726
373.4	0.00608
373.6	0.00514
373.8	0.00386
374.0	0.00312
374.2	0.00247
374.4	0.00213
374.6	0.0019
374.8	0.00191
375.0	0.00213
375.2	0.0025
375.4	0.00323
375.6	0.00444
375.8	0.006
376.0	0.00765
376.2	0.00851
376.4	0.00908
376.6	0.00934
376.8	0.00892
377.0	0.00794
377.2	0.00675
377.4	0.00487
377.6	0.00331
377.8	0.00224
378.0	0.00159
378.2	0.00117
378.4	0.00102
378.6	0.00146
378.8	0.00218
379.0	0.00333
379.2	0.00437
379.4	0.00496
379.6	0.00544
379.8	0.00538
380.0	0.00523
380.2	0.00465
380.4	0.0036
380.6	0.00242
380.8	0.00126
381.0	5.8372e-04
381.2	2.9793e-04
381.4	1.9538e-04
381.6	1.8811e-04
381.8	1.2583e-04
382.0	1.3054e-04
382.2	1.6906e-04
382.4	8.2189e-05
382.6	8.8076e-05
382.8	6.8536e-05
383.0	1.1321e-04
383.2	4.916e-05

383.4 1.3063e-04
383.6 6.0195e-05
383.8 7.7908e-05
384.0 1.4633e-04
384.2 1.4496e-04
384.4 8.6413e-05
384.6 1.3621e-04
384.8 8.9096e-05
385.0 1.2847e-04
385.2 1.083e-04
385.4 1.3889e-04
385.6 1.368e-04
385.8 6.1265e-05
386.0 1.6804e-04
386.2 9.1892e-05
386.4 1.5287e-04
386.6 9.9916e-05
386.8 6.1506e-05
387.0 1.4335e-04
387.2 9.9928e-05
387.4 5.69e-05
387.6 4.2684e-05
387.8 9.6224e-05
388.0 8.1089e-05
388.2 5.499e-05
388.4 5.4623e-05
388.6 4.2447e-05
388.8 3.9788e-05
389.0 1.0766e-04
389.2 4.1943e-05
389.4 4.4553e-05
389.6 4.556e-05
389.8 4.0963e-05
390.0 7.7633e-05
390.2 3.8422e-05
390.4 4.9081e-05
390.6 4.388e-05
390.8 8.8142e-05
391.0 7.3831e-05
391.2 4.3133e-05
391.4 4.3559e-05
391.6 6.8571e-05
391.8 6.3819e-05
392.0 5.2922e-05
392.2 7.8085e-05
392.4 3.6174e-05
392.6 5.5673e-05
392.8 5.448e-05
393.0 1.1669e-04
393.2 9.6962e-05
393.4 4.3757e-05
393.6 4.3829e-05
393.8 6.141e-05
394.0 1.1118e-04

394.2 6.3934e-05
394.4 7.874e-05
394.6 4.6965e-05
394.8 3.5331e-05
395.0 9.9482e-05
395.2 1.1975e-04
395.4 1.022e-04
395.6 9.1885e-05
395.8 3.7267e-05
396.0 8.082e-05
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396.6 3.8821e-05
396.8 3.5017e-05
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397.2 0.01402
397.4 0.01431
397.6 0.01469
397.8 0.01487
398.0 0.0148
398.2 0.01523
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398.6 0.01553
398.8 0.01572
399.0 0.01585
399.2 0.01591
399.4 0.01616
399.6 0.01627
399.8 0.0166
400.0 0.01661
400.2 0.01686
400.4 0.01713
400.6 0.0172
400.8 0.01741
401.0 0.01775
401.2 0.01789
401.4 0.01808
401.6 0.01831
401.8 0.01866
402.0 0.01871
402.2 0.01921
402.4 0.01954
402.6 0.02007
402.8 0.02074
403.0 0.02177
403.2 0.02258
403.4 0.02424
403.6 0.02637
403.8 0.03001
404.0 0.03457
404.2 0.04217
404.4 0.05346
404.6 0.07027
404.8 0.0934

405.0	0.1226
405.2	0.157
405.4	0.1938
405.6	0.2318
405.8	0.26844
406.0	0.30335
406.2	0.33364
406.4	0.35886
406.6	0.38142
406.8	0.39441
407.0	0.40347
407.2	0.40834
407.4	0.40975
407.6	0.41181
407.8	0.41583
408.0	0.42118
408.2	0.42814
408.4	0.43571
408.6	0.44349
408.8	0.45053
409.0	0.45685
409.2	0.46228
409.4	0.46598
409.6	0.47062
409.8	0.47782
410.0	0.49381
410.2	0.51727
410.4	0.54997
410.6	0.59235
410.8	0.63822
411.0	0.68564
411.2	0.73549
411.4	0.78137
411.6	0.82071
411.8	0.85313
412.0	0.87676
412.2	0.89241
412.4	0.90028
412.6	0.90865
412.8	0.91414
413.0	0.91944
413.2	0.92711
413.4	0.92896
413.6	0.93009
413.8	0.92951
414.0	0.93133
414.2	0.93009
414.4	0.93045
414.6	0.93083
414.8	0.93087
415.0	0.93031
415.2	0.9296
415.4	0.93083
415.6	0.93031

415.8	0.93239
416.0	0.9336
416.2	0.93339
416.4	0.93536
416.6	0.93756
416.8	0.93868
417.0	0.93947
417.2	0.9414
417.4	0.94359
417.6	0.94355
417.8	0.94491
418.0	0.94566
418.2	0.94614
418.4	0.94749
418.6	0.94788
418.8	0.94679
419.0	0.94807
419.2	0.94727
419.4	0.94729
419.6	0.94922
419.8	0.94793
420.0	0.95108
420.2	0.94883
420.4	0.94793
420.6	0.94754
420.8	0.94638
421.0	0.94319
421.2	0.94361
421.4	0.94093
421.6	0.93961
421.8	0.93824
422.0	0.93889
422.2	0.93459
422.4	0.93481
422.6	0.93598
422.8	0.93733
423.0	0.93823
423.2	0.93823
423.4	0.94005
423.6	0.9425
423.8	0.94556
424.0	0.94807
424.2	0.95091
424.4	0.95321
424.6	0.95485
424.8	0.95721
425.0	0.95698
425.2	0.95844
425.4	0.95984
425.6	0.95857
425.8	0.957
426.0	0.95601
426.2	0.95578
426.4	0.95391

426.6	0.95402
426.8	0.95176
427.0	0.95262
427.2	0.95367
427.4	0.9531
427.6	0.95296
427.8	0.95309
428.0	0.95322
428.2	0.95471
428.4	0.95681
428.6	0.95824
428.8	0.95954
429.0	0.96012
429.2	0.96181
429.4	0.96208
429.6	0.96318
429.8	0.9636
430.0	0.96636
430.2	0.96392
430.4	0.96268
430.6	0.96521
430.8	0.96412
431.0	0.96411
431.2	0.96653
431.4	0.96444
431.6	0.96499
431.8	0.96312
432.0	0.96391
432.2	0.96293
432.4	0.96219
432.6	0.96345
432.8	0.961
433.0	0.96358
433.2	0.96423
433.4	0.96349
433.6	0.96392
433.8	0.96438
434.0	0.96617
434.2	0.96586
434.4	0.96857
434.6	0.96997
434.8	0.9708
435.0	0.97012
435.2	0.9704
435.4	0.97131
435.6	0.97159
435.8	0.97054
436.0	0.96984
436.2	0.96969
436.4	0.97041
436.6	0.96859
436.8	0.96933
437.0	0.96986
437.2	0.96765

437.4 0.9704
437.6 0.96911
437.8 0.9689
438.0 0.9687
438.2 0.96821
438.4 0.96874
438.6 0.96863
438.8 0.96858
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441.4 0.97481
441.6 0.97421
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447.6 0.97164
447.8 0.97196
448.0 0.97002

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449.6 0.97028
449.8 0.97101
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451.8 0.97634
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452.8 0.9762
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453.2 0.97419
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453.6 0.97637
453.8 0.97316
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455.0 0.96968
455.2 0.96927
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455.6 0.96863
455.8 0.97015
456.0 0.96782
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456.6 0.97258
456.8 0.97384
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457.4 0.9773
457.6 0.97776
457.8 0.98014
458.0 0.979
458.2 0.97899
458.4 0.97849
458.6 0.97744
458.8 0.9785

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460.6 0.97242
460.8 0.97246
461.0 0.97205
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461.4 0.97039
461.6 0.97077
461.8 0.97092
462.0 0.97262
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462.8 0.96976
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463.2 0.96996
463.4 0.96824
463.6 0.96891
463.8 0.97079
464.0 0.97026
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464.6 0.97299
464.8 0.97466
465.0 0.97539
465.2 0.97492
465.4 0.97652
465.6 0.97514
465.8 0.97411
466.0 0.97338
466.2 0.97358
466.4 0.97284
466.6 0.97237
466.8 0.97276
467.0 0.97215
467.2 0.97104
467.4 0.97167
467.6 0.96948
467.8 0.9684
468.0 0.96854
468.2 0.96982
468.4 0.96826
468.6 0.96771
468.8 0.96897
469.0 0.97096
469.2 0.96989
469.4 0.96975
469.6 0.96895

469.8 0.96979
470.0 0.96875
470.2 0.96851
470.4 0.96838
470.6 0.96837
470.8 0.96842
471.0 0.96847
471.2 0.96904
471.4 0.96792
471.6 0.96587
471.8 0.96616
472.0 0.96687
472.2 0.967
472.4 0.96704
472.6 0.96647
472.8 0.96659
473.0 0.96826
473.2 0.96862
473.4 0.96625
473.6 0.96531
473.8 0.96429
474.0 0.96285
474.2 0.96328
474.4 0.96396
474.6 0.96463
474.8 0.96631
475.0 0.96592
475.2 0.96695
475.4 0.96745
475.6 0.96562
475.8 0.96597
476.0 0.96631
476.2 0.96655
476.4 0.96775
476.6 0.96987
476.8 0.96886
477.0 0.96887
477.2 0.96844
477.4 0.96831
477.6 0.9682
477.8 0.97028
478.0 0.97007
478.2 0.97107
478.4 0.96909
478.6 0.9695
478.8 0.96969
479.0 0.96715
479.2 0.96857
479.4 0.96867
479.6 0.9661
479.8 0.9649
480.0 0.96556
480.2 0.96439
480.4 0.96473

480.6	0.96364
480.8	0.96193
481.0	0.9629
481.2	0.9633
481.4	0.95972
481.6	0.95895
481.8	0.95954
482.0	0.96005
482.2	0.95827
482.4	0.95972
482.6	0.95786
482.8	0.95774
483.0	0.95738
483.2	0.95761
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483.6	0.95725
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