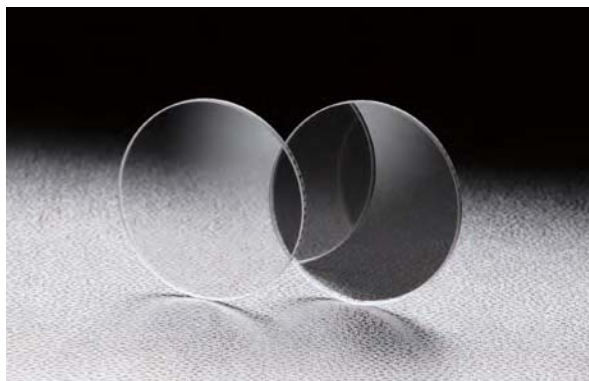


The reflective ND filter is used for high power and broadband wavelength light density reducing. The untransmitted light would not be absorbed, there is no possibility of glass damaging by the heat.

- The metal reflection coating provides an extremely smooth transmission characteristic from the UV to IR wavelengths.
- We are using synthetic fused silica substrates for high transmission at UV range for the UV ND filter. We can obtain almost the similar transmittance at the Near UV and the visible range.
- The substrate thickness is 2mm $\pm$ 0.1mm with no difference with the transmittance.



Specifications

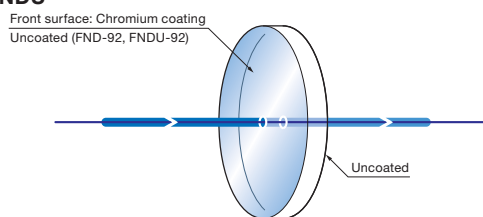
	Visible (FND)	UV (FNDU)
Material	BK7	Synthetic fused silica
Coating	Chrome coating (Cr) but FND-92, FNDU-92, MFND-92, MFNDU-92 is uncoated	
Wavelength Range	400 - 700nm	200 - 400nm
Parallelism	<1'	<30"
Surface flatness	λ (Measurement area: ϕ 30mm)	
Surface Quality (Scratch-Dig)	60-40	
Mount (MFND/MFNDU)	Material: Aluminum	Finishing: Black anodized
Clear aperture	90% of Actual Aperture	

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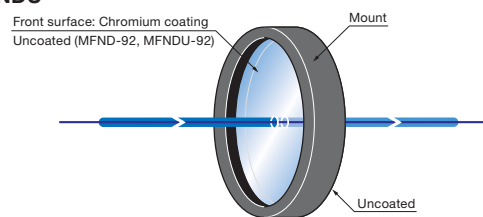
- Different size, wavelength and deviation not mentioned on-line or in our catalog are available as custom product upon on request.

Schematic

FND/FNDU



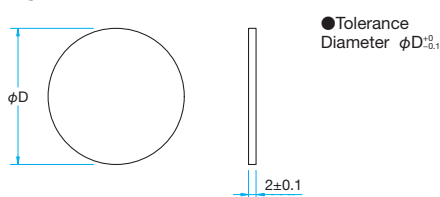
MFND/MFNDU



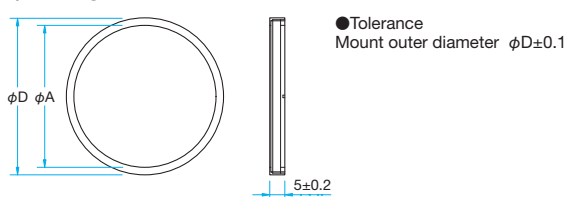
Outline Drawing

(in mm)

FND/FNDU



MFND/MFNDU



Compatible Optic Mounts

FH-10 / FH-25, -50 / FHS-25, -50 / NDWH-15SRO

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Visible		
Part Number	Diameter φD [mm]	Transmittance (550nm) [%]
FND-15C02-0.1	φ15	0.1
FND-15C02-1	φ15	1
FND-15C02-5	φ15	5
FND-15C02-10	φ15	10
FND-15C02-20	φ15	20
FND-15C02-30	φ15	30
FND-15C02-40	φ15	40
FND-15C02-50	φ15	50
FND-15C02-60	φ15	60
FND-15C02-70	φ15	70
FND-15C02-80	φ15	80
FND-15C02-92	φ15	92
FND-20C02-0.1	φ20	0.1
FND-20C02-1	φ20	1
FND-20C02-5	φ20	5
FND-20C02-10	φ20	10
FND-20C02-20	φ20	20
FND-20C02-30	φ20	30
FND-20C02-40	φ20	40
FND-20C02-50	φ20	50
FND-20C02-60	φ20	60
FND-20C02-70	φ20	70
FND-20C02-80	φ20	80
FND-20C02-92	φ20	92
FND-25C02-0.1	φ25	0.1
FND-25C02-1	φ25	1
FND-25C02-5	φ25	5
FND-25C02-10	φ25	10
FND-25C02-20	φ25	20
FND-25C02-30	φ25	30
FND-25C02-40	φ25	40
FND-25C02-50	φ25	50
FND-25C02-60	φ25	60
FND-25C02-70	φ25	70
FND-25C02-80	φ25	80
FND-25C02-92	φ25	92
FND-30C02-0.1	φ30	0.1
FND-30C02-1	φ30	1
FND-30C02-5	φ30	5
FND-30C02-10	φ30	10
FND-30C02-20	φ30	20
FND-30C02-30	φ30	30
FND-30C02-40	φ30	40
FND-30C02-50	φ30	50
FND-30C02-60	φ30	60
FND-30C02-70	φ30	70
FND-30C02-80	φ30	80
FND-30C02-92	φ30	92
FND-50C02-0.1	φ50	0.1
FND-50C02-1	φ50	1
FND-50C02-5	φ50	5
FND-50C02-10	φ50	10
FND-50C02-20	φ50	20
FND-50C02-30	φ50	30
FND-50C02-40	φ50	40
FND-50C02-50	φ50	50
FND-50C02-60	φ50	60
FND-50C02-70	φ50	70
FND-50C02-80	φ50	80
FND-50C02-92	φ50	92

Visible · Mounted

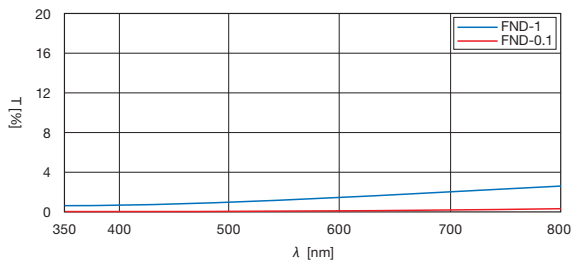
Part Number	Mount outer diameter φD [mm]	Clear aperture φA [mm]	Transmittance (550nm) [%]
MFND-25-0.1	φ25	φ17	0.1
MFND-25-1	φ25	φ17	1
MFND-25-5	φ25	φ17	5
MFND-25-10	φ25	φ17	10
MFND-25-20	φ25	φ17	20
MFND-25-30	φ25	φ17	30
MFND-25-40	φ25	φ17	40
MFND-25-50	φ25	φ17	50
MFND-25-60	φ25	φ17	60
MFND-25-70	φ25	φ17	70
MFND-25-80	φ25	φ17	80
MFND-25-92	φ25	φ17	92
MFND-30-0.1	φ30	φ22	0.1
MFND-30-1	φ30	φ22	1
MFND-30-5	φ30	φ22	5
MFND-30-10	φ30	φ22	10
MFND-30-20	φ30	φ22	20
MFND-30-30	φ30	φ22	30
MFND-30-40	φ30	φ22	40
MFND-30-50	φ30	φ22	50
MFND-30-60	φ30	φ22	60
MFND-30-70	φ30	φ22	70
MFND-30-80	φ30	φ22	80
MFND-30-92	φ30	φ22	92
MFND-52-0.1	φ52	φ47	0.1
MFND-52-1	φ52	φ47	1
MFND-52-5	φ52	φ47	5
MFND-52-10	φ52	φ47	10
MFND-52-20	φ52	φ47	20
MFND-52-30	φ52	φ47	30
MFND-52-40	φ52	φ47	40
MFND-52-50	φ52	φ47	50
MFND-52-60	φ52	φ47	60
MFND-52-70	φ52	φ47	70
MFND-52-80	φ52	φ47	80
MFND-52-92	φ52	φ47	92

Please refer to the chart for transmittance data (FND).

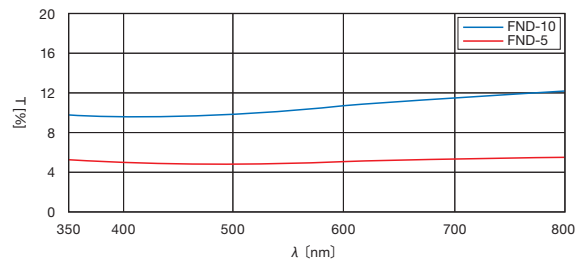
Typical Transmittance Data

T: Transmission

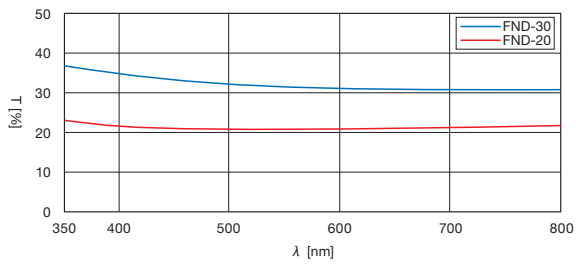
FND-0.1 · 1



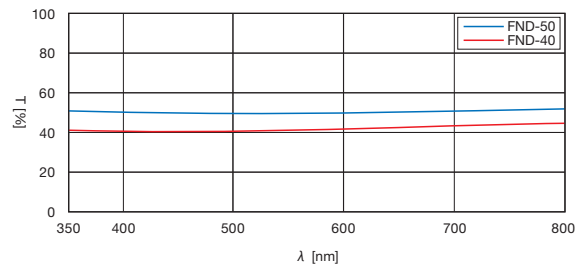
FND-5 · 10



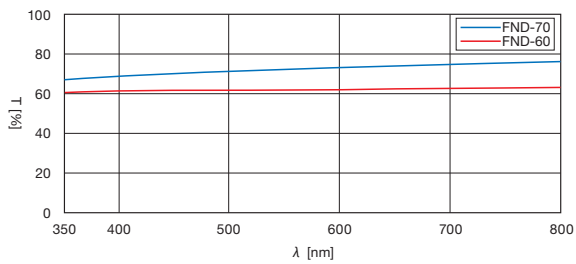
FND-20 · 30



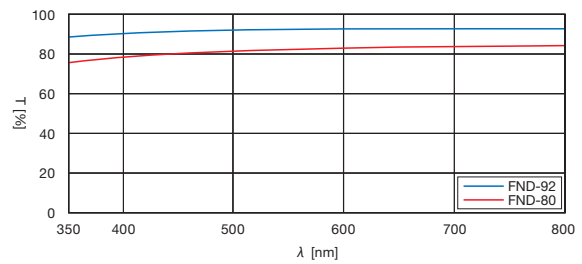
FND-40 · 50



FND-60 · 70



FND-80 · 92



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Ultraviolet		
Part Number	Diameter φD [mm]	Transmittance (300nm) [%]
FNDU-20C02-0.1	φ20	0.1
FNDU-20C02-1	φ20	1
FNDU-20C02-5	φ20	5
FNDU-20C02-10	φ20	10
FNDU-20C02-20	φ20	20
FNDU-20C02-30	φ20	30
FNDU-20C02-40	φ20	40
FNDU-20C02-50	φ20	50
FNDU-20C02-60	φ20	60
FNDU-20C02-70	φ20	70
FNDU-20C02-80	φ20	80
FNDU-20C02-92	φ20	92
FNDU-25C02-0.1	φ25	0.1
FNDU-25C02-1	φ25	1
FNDU-25C02-5	φ25	5
FNDU-25C02-10	φ25	10
FNDU-25C02-20	φ25	20
FNDU-25C02-30	φ25	30
FNDU-25C02-40	φ25	40
FNDU-25C02-50	φ25	50
FNDU-25C02-60	φ25	60
FNDU-25C02-70	φ25	70
FNDU-25C02-80	φ25	80
FNDU-25C02-92	φ25	92
FNDU-30C02-0.1	φ30	0.1
FNDU-30C02-1	φ30	1
FNDU-30C02-5	φ30	5
FNDU-30C02-10	φ30	10
FNDU-30C02-20	φ30	20
FNDU-30C02-30	φ30	30
FNDU-30C02-40	φ30	40
FNDU-30C02-50	φ30	50
FNDU-30C02-60	φ30	60
FNDU-30C02-70	φ30	70
FNDU-30C02-80	φ30	80
FNDU-30C02-92	φ30	92
FNDU-50C02-0.1	φ50	0.1
FNDU-50C02-1	φ50	1
FNDU-50C02-5	φ50	5
FNDU-50C02-10	φ50	10
FNDU-50C02-20	φ50	20
FNDU-50C02-30	φ50	30
FNDU-50C02-40	φ50	40
FNDU-50C02-50	φ50	50
FNDU-50C02-60	φ50	60
FNDU-50C02-70	φ50	70
FNDU-50C02-80	φ50	80
FNDU-50C02-92	φ50	92

Ultraviolet • Mounted

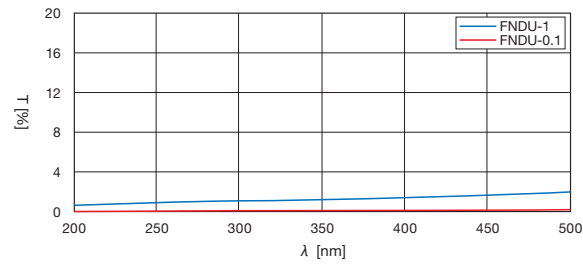
Part Number	Mount outer diameter φD [mm]	Clear aperture φA [mm]	Transmittance (300nm) [%]
MFNDU-25-0.1	φ25	φ17	0.1
MFNDU-25-1	φ25	φ17	1
MFNDU-25-5	φ25	φ17	5
MFNDU-25-10	φ25	φ17	10
MFNDU-25-20	φ25	φ17	20
MFNDU-25-30	φ25	φ17	30
MFNDU-25-40	φ25	φ17	40
MFNDU-25-50	φ25	φ17	50
MFNDU-25-60	φ25	φ17	60
MFNDU-25-70	φ25	φ17	70
MFNDU-25-80	φ25	φ17	80
MFNDU-25-92	φ25	φ17	92
MFNDU-30-0.1	φ30	φ22	0.1
MFNDU-30-1	φ30	φ22	1
MFNDU-30-5	φ30	φ22	5
MFNDU-30-10	φ30	φ22	10
MFNDU-30-20	φ30	φ22	20
MFNDU-30-30	φ30	φ22	30
MFNDU-30-40	φ30	φ22	40
MFNDU-30-50	φ30	φ22	50
MFNDU-30-60	φ30	φ22	60
MFNDU-30-70	φ30	φ22	70
MFNDU-30-80	φ30	φ22	80
MFNDU-30-92	φ30	φ22	92
MFNDU-52-0.1	φ52	φ47	0.1
MFNDU-52-1	φ52	φ47	1
MFNDU-52-5	φ52	φ47	5
MFNDU-52-10	φ52	φ47	10
MFNDU-52-20	φ52	φ47	20
MFNDU-52-30	φ52	φ47	30
MFNDU-52-40	φ52	φ47	40
MFNDU-52-50	φ52	φ47	50
MFNDU-52-60	φ52	φ47	60
MFNDU-52-70	φ52	φ47	70
MFNDU-52-80	φ52	φ47	80
MFNDU-52-92	φ52	φ47	92

Please refer to the chart for transmittance data (FND).

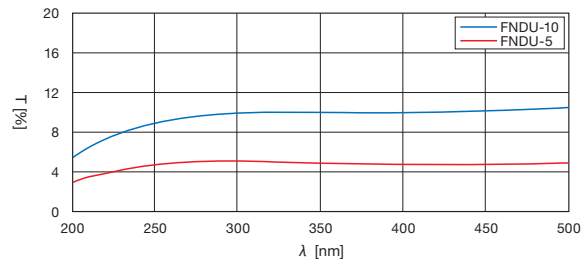
Typical Transmittance Data

T: Transmission

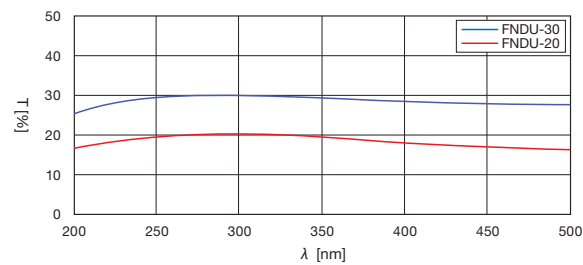
FNDU-0.1 · 1



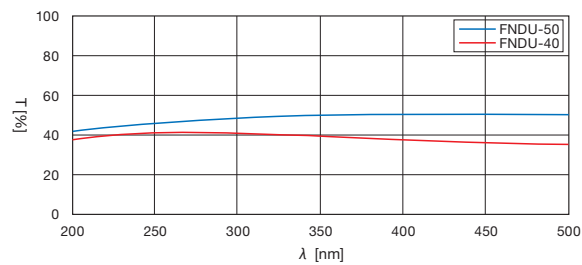
FNDU-5 · 10



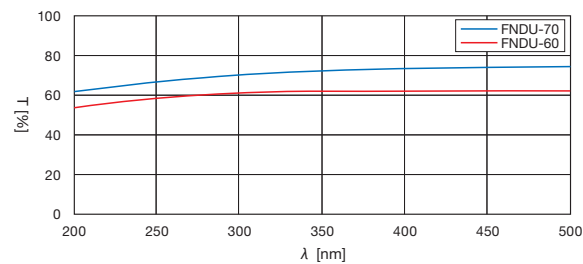
FNDU-20 · 30



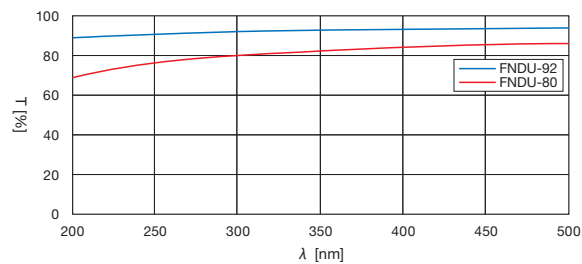
FNDU-40 · 50



FNDU-60 · 70



FNDU-80 · 92



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