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## Infrared (IR) Neutral Density (ND) Filters



- Spectrally Flat from 2 $\mu$ m to 14 $\mu$ m
- Precision Germanium Substrate
- Due to material supply chain disruptions with germanium, there may be increased lead times and price changes on our germanium products. For more information, please contact our customer service team.

### Common Specifications

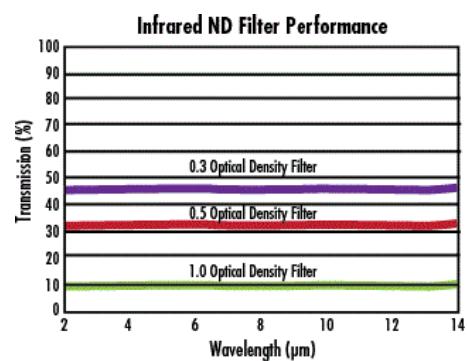
#### Physical & Mechanical Properties

Thickness (mm):	1.00 $\pm$ 0.2	Parallelism (arcmin):	<10
Clear Aperture (%):	90		

#### Optical Properties

Substrate:	Germanium (Ge)	Coating:	Metallic Based ND	Surface Quality:	80-50
Surface Flatness (P-V):	3 - 5 $\lambda$				

## Technical Information



## Products

Dia. (mm)	Optical Density OD (Average)	Thickness (mm)	Transmission (%)	Wavelength Range (μm)	Stock Number	Price	Buy
12.50	0.3	1.00	50.0	2 - 14	<a href="#">#12-003</a>	S\$588.00	4 In Stock
12.50	0.5	1.00	31.6	2 - 14	<a href="#">#12-004</a>	S\$588.00	4 In Stock
12.50	0.6	1.00	25.0	2 - 14	<a href="#">#12-005</a>	S\$588.00	3 In Stock
12.50	0.7	1.00	20.0	2 - 14	<a href="#">#12-006</a>	S\$588.00	6 In Stock
12.50	0.8	1.00	15.8	2 - 14	<a href="#">#12-007</a>	S\$588.00	5 In Stock
12.50	0.9	1.00	12.6	2 - 14	<a href="#">#12-008</a>	S\$588.00	3 In Stock
12.50	1.0	1.00	10.0	2 - 14	<a href="#">#12-009</a>	S\$588.00	3 In Stock
12.50	1.3	1.00	5.0	2 - 14	<a href="#">#12-013</a>	S\$588.00	1 In Stock
12.50	1.5	1.00	3.2	2 - 14	<a href="#">#12-014</a>	S\$588.00	3 In Stock
12.50	2.0	1.00	1.0	2 - 14	<a href="#">#12-015</a>	S\$588.00	5 In Stock
12.50	2.5	1.00	0.32	2 - 14	<a href="#">#12-016</a>	S\$588.00	2 In Stock
12.50	3.0	1.00	0.10	2 - 14	<a href="#">#12-017</a>	S\$588.00	5 In Stock

[#64-353 Clearance](#)



### Clearance

Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.

25.00	0.3	1.00	50.0	2 - 14	<a href="#">#12-018</a>	S\$903.00	Contact Us
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[#64-354 Clearance](#)

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25.00	0.5	1.00	31.6	2 - 14	<p>Clearance</p> <p>Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.</p>	S\$903.00	Contact Us
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[#87-197 Clearance](#)

25.00	0.6	1.00	25.0	2 - 14	<p>Clearance</p> <p>Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.</p>	S\$903.00	5 In Stock
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[#12-000 Clearance](#)

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25.00	0.7	1.00	20.0	2 - 14	Clearance Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	S\$903.00	4 In Stock
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[#12-001 Clearance](#)

25.00	0.8	1.00	15.8	2 - 14	Clearance Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	S\$903.00	3 In Stock
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[#87-198 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

25.00	0.9	1.00	12.6	2 - 14	S\$903.00	1 In Stock
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[#64-355 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

25.00	1.0	1.00	10.0	2 - 14	S\$903.00	5 In Stock
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[#87-199 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

25.00	1.3	1.00	5.0	2 - 14	S\$903.00	2 In Stock
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[#87-200 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

25.00	1.5	1.00	3.2	2 - 14	S\$903.00	1 In Stock
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[#64-356 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

25.00    2.0    1.00    1.0    2 - 14    S\$903.00    [Contact Us](#)

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[#12-002 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

25.00    2.5    1.00    0.32    2 - 14    S\$903.00    4 In Stock

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[#64-357 Clearance](#)

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25.00	3.0	1.00	0.10	2 - 14	<p>Clearance</p> <p>Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.</p>	S\$903.00	Contact Us
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[#12-243 Clearance](#)

25.00	0.3	1.00	50.0	5.8 - 6.4	<p>Clearance</p> <p>Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.</p>	S\$903.00	1 In Stock
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[#12-244 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

25.00	0.5	1.00	31.6	5.8 - 6.4	S\$903.00	1 In Stock
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[#12-245 Clearance](#)



Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.  
Sorry, we  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

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25.00	1.0	1.00	10.0	5.8 - 6.4	S\$903.00	1 In Stock
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Clearance

Availability  
is limited,  
so buy  
before  
these  
products  
disappear.

S\$903.00

3 In Stock



5.8 - 6.4

Shipping  
cannot  
accept  
returns.  
Receive  
up to 80%  
off select  
products.

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50.00	0.3	1.00	50.0	2 - 14	<a href="#">#64-358</a>	S\$1,750.00	1 In Stock
50.00	0.5	1.00	31.6	2 - 14	<a href="#">#64-359</a>	S\$1,750.00	2 In Stock
50.00	0.6	1.00	25.0	2 - 14	<a href="#">#87-201</a>	S\$1,750.00	2 In Stock
50.00	0.9	1.00	12.6	2 - 14	<a href="#">#87-202</a>	S\$1,750.00	2 In Stock
50.00	1.0	1.00	10.0	2 - 14	<a href="#">#64-360</a>	S\$1,750.00	3 In Stock
50.00	1.3	1.00	5.0	2 - 14	<a href="#">#87-203</a>	S\$1,750.00	2 In Stock
50.00	1.5	1.00	3.2	2 - 14	<a href="#">#87-204</a>	S\$1,750.00	2 In Stock
50.00	2.0	1.00	1.0	2 - 14	<a href="#">#64-361</a>	S\$1,750.00	2 In Stock
50.00	3.0	1.00	0.10	2 - 14	<a href="#">#64-362</a>	S\$1,750.00	2 In Stock