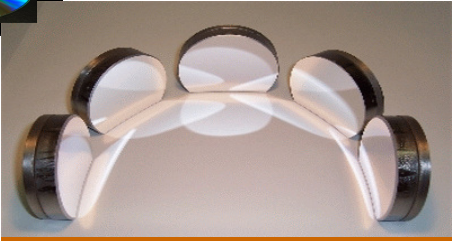


# HIGH-REFLECTION MIRROR SERIES

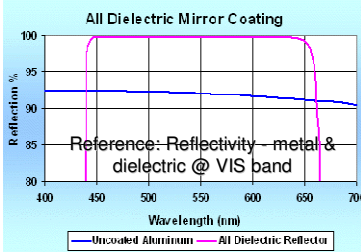
(Broadband, Dielectrically Coated)  
(UV, Visible, NIR Band)



PHOTONIK's broadband dielectric HR mirrors offer excellent reflectivity over the started wavelength ranges at  $0 \sim 45^\circ$  angle of incidence, which are most popular in R & D environment and instrument development areas.



PHOTONIK SPECTRUM WORLD



**Call us for info**  
**Broadband Mirror Set\*\***



\*\* Economical package with much lower price (20% lower than unit price)

### General Specifications:

Substrate Material:  
Substrate Dimension:

UV fused silica, or upon request  
**04:**  $\varnothing 10 \times T6\text{mm}$ ; **05:**  $\varnothing 0.5'' \times T6\text{mm}$ ; **06:**  $\varnothing 15 \times T6\text{mm}$ ;  
**08:**  $\varnothing 20 \times T6\text{mm}$ ; **10:**  $\varnothing 1'' \times 6\text{mm}$ ; **12:**  $\varnothing 30 \times T8\text{mm}$ ;  
**15:**  $\varnothing 1.5'' \times T8\text{mm}$ ; **20:**  $\varnothing 2'' \times T12\text{mm}$ ; upon request  
 $+ 0.00\text{mm}$ ,  $- 0.10\text{mm} / \pm 0.15\text{mm}$   
 $\lambda / 10$  typical at 633nm over 1" area

Diameter/Thickness Tolerance:  
Surface Figure:  
Surface Quality (after coated):  
Broadband Coating:  
Rear Surface:  
Chamfer:  
Coating Technology:  
Durability Performance:

10 - 5 scratch and dig laser quality (MIL SPECS 0-13830B)  
Fine ground typ. (fine polished to laser grade upon request)  
0.35mm at  $45^\circ$  typ.  
Electron/Ion beam multi-layer dielectric standard  
Adhesion, abrasion, humidity as per the following (where applicable): MIL-C-675, MIL-M-13508, MIL-M-14806, MIL-C-48497, MIL-F-48616, MIL-STD-810F

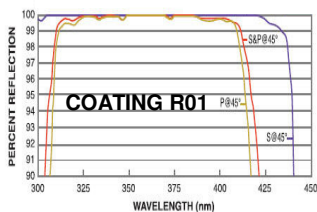
Clear Aperture:  
Angle of Incidence(AOI):  
Damage Threshold:

> 90% of dimension, central area  
 $0 \sim 45^\circ$  AOI standard; Others per specified for special order.  
>  $5\text{kW}/\text{cm}^2$ , CW @ center wavelength; and >  $200\text{-mJ}/\text{cm}^2$ ,  
10nsec pulse; @ 1064nm typ.

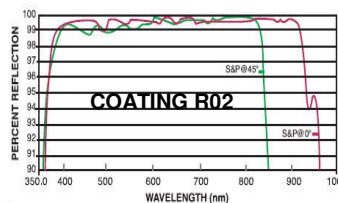
High Reflection (HR) Coating:

$R > 99\%$  Ave (s- & p-polarization),  $0^\circ$  &  $45^\circ$  over specified band.  
**R01** Coating: 325 ~ 410nm  
**R02** Coating: 400 ~ 900nm  
**R03** Coating: 700 ~ 1200nm  
**R04** Coating: 1200 ~ 1700nm

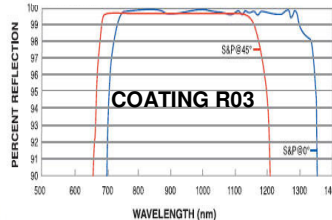
Typical **R01** - Coating Spectrum (UV BAND: 325 - 410nm)



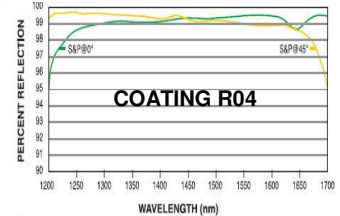
Typical **R02** - Coating Spectrum (VIS BAND: 400 - 900nm)



Typical **R03** - Coating Spectrum (NIR1 BAND: 700 - 1200nm)



Typical **R04** - Coating Spectrum (NIR2 BAND: 1200 - 1700nm)



### Ordering Information:

**PBB — ① — ②**

- ① — Dimension (per given code): e.g. **05** =  $\varnothing 0.5'' \times T6\text{mm}$ ; **20** =  $\varnothing 2'' \times T12\text{mm}$ ...
- ② — Coating type (per given code): e.g. **R01** for UV band HR coating; **R02** for VIS band HR coating ...

### Contact Information:

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### Local Representative:

