Optics Polka Dot Beamsplitters Optical Systems Free Space Isolators Thorlabs offers a 50/50 broadband beamsplitter with a constant reflection-to-transmission ratio over the entire UV to Mid-IR (250nm to 2.0µm) wavelength range. The beamsplitters have either a UV-grade fused **E-O Devices** silica or a B270 glass substrate with a vacuum-deposited aluminum coating. **Spherical Singlets** The aluminum coating is applied over an array of apertures, **Multi-Element** giving the beamsplitter a "polka dot" appearance. Thus, the Lenses beam is split evenly by reflection from the aluminized coating **Cylindrical Lenses** and transmission through the non-aluminized portion of the substrate. The square dots are 0.0040" on a slide, and the Aspheric Lenses spacing between the dots is 0.0022" in all directions. This versatile beamsplitter is useful over a wide wavelength range and is relatively insensitive to the incident angle of the Diffusers light. As a result, the Polka Dot beamsplitter is an excellent & Lens Arrays choice for applications that involve incoherent radiant sources. Windows **Prisms** Gratings Specifications **Polarization Optics** Substrate: UV-Grade Fused Silica or B270 Glass Beam Split Ratio: 50 ± 5% R, 50 ± 5% T **Thickness:** 1.5mm Nominal **Beamsplitters** Minimum Beam Diameter for 50/50 Split: 2mm Size Tolerance: +0.0mm /-0.5mm Operating Range: 250nm to 2.0µm Filters & Attenuators Angle of Incidence: 0-45° Coating Pattern: Square Coated Apertures **Gas Cells** 8 10 10 10 10 5 Light Source 45° 50% of UV, VIS and IR Transmission 50% of UV, VIS and IR Reflection Broadband 50/50 Beamsplitter 医黄疸菌素黄疸 45° Angle of Incidence ITEM# \$ £ € RMB DESCRIPTION BPD127-G Polka Dot Beamsplitter, Ø12.7mm, B270 Glass \$ 56.70 £ 35.70 € 52,70 ¥ 541.50 BPD127-FS \$ 82.40 51.90 76,60 786.90 Polka Dot Beamsplitter, Ø12.7mm, UV Fused Silica £ € ¥ BPD254-G \$ 97.90 91,00 934.90 Polka Dot Beamsplitter, Ø25.4mm, B270 Glass £ 61.70 € ¥ BPD254-FS \$ 154.50 97.30 1,475.50 Polka Dot Beamsplitter, Ø25.4mm, UV Fused Silica, € 143,70 ¥ £ BPD254S-G 97.90 61.70 € 91,00 ¥ 934.90 Polka Dot Beamsplitter, 25.4mm Square, B270 Glass \$ £ BPD254S-FS \$ 154.50 £ 97.30 € 143,70 ¥ 1,475.50 Polka Dot Beamsplitter, 25.4mm Square, UV Fused Silica BPD508-G \$ 257.50 £ 162.20 € 239,50 ¥ 2,459,10 Polka Dot Beamsplitter, Ø50.8mm, B270 Glass Polka Dot Beamsplitter, Ø50.8mm, UV Fused Silica



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4,426.40

BPD508-FS

\$ 463.50

£ 292.00 € 431,10