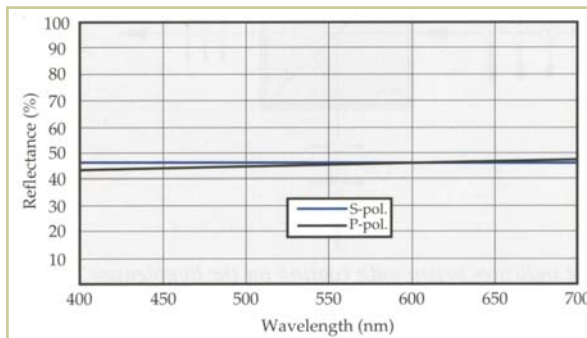


Metal-Dielectric Cube Beamsplitters

These hybrid cube beamsplitters provide a neutral response across the visible spectrum. The coating is a combination of a reflecting dielectric film and an absorbing metallic film. This type of coating is fairly insensitive to polarization producing equal s- and p- reflectance within 5%. Hybrid cube beamsplitters can provide either a 1:1 or 2:1 split ratio.



They are about 10% absorbing and should only be used for low power applications. External faces

Typical Specifications	
Substrate Material:	BK7A
Surface flatness:	$\lambda/8$ @ 633 nm
Surface quality:	20/10
Beam deviation:	< 3 arcmin
Dimensions:	+0.0 / -0.2 mm
s-p :	< 5%
T & R:	45/45 or 60/30 +/-5%
AR coating:	R< 0.5% per face
Clear aperture:	> 85% of side

are anti-reflection coated with a

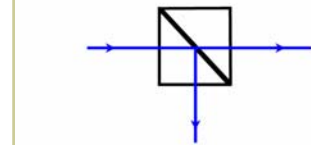
broadband visible coating which provides a reflectance of less than 0.5% per face.

Cubes are often easier to use than plate reflectors and they provide protection for the coating, which is internal to the cube.

Split ratios are:

T/R = 1:1

T/R = 2:1



Four separate wavebands are offered:

Visible 400–700 nm centred on 550 nm

Near IR 600 – 1000 nm centred on 800 nm

Near IR 900 – 1400 nm centred on 1200 nm

Telecom 1200 – 1600 nm centred on 1400 nm

Standard cube sizes are 5, 6.35, 10, 12.7, 20, 25.4, 38.1 and 50.8 mm but other sizes can be supplied on request.

To request a quote or to order, please specify:

Quantity — Size — Split Ratio (1:1. 2:1) — Centre Wavelength (550, 800, 1200, 1400 nm)

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For a quotation — please phone, fax or email us with details of your requirements.