LASER HARMONIC SEPARATORS

Harmonic separators are dichroic beamsplitters used to reflect one wavelength and to transmit the others. Reflectance is better than 99.5% for the wavelegth of interest?and transmittance is at least 90% for the rejected wavelegths. The rear surface of harmonic separators?is antireflection coated.

Standard Specifications:

Optical Material: BK7 A grade glass
Dimension Tolerance: +0.0,-0.15mm

Clear Aperture: >90%

Angular Tolerance: ±30 arc minutes

Surface Quality: 20-10 scratch and dig Wavefront Distortion: lambda/10 at 632.8nm

Bevel: <0.25mm X 45

Coating Specifications:

Technology: Thermal Evaporation

Adhesion & Durability: Per MIL-C-675A, Insoluble in lab solvent

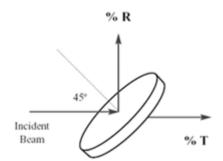
Clear Aperture: > 85% of diameter central

Damage Threshold: > 2 J/cm2, 8 ns pulse, 1064 nm

Reflectance (Ravg): >99.5% @45 degrees AOI

Rear side AR coate R<15%

Angle of Incidence: 45 or 0 Degrees



Standard For Laser Harmonic separators:

Reflected	Transmitted	AOI (°)	Product Number		
Wavelength(nm)	Wavelength(nm)		D25.4x5mm	D30.0x6mm	D50.8x8mm
1064	532	0°	UQT-LHSB0101	UQT-LHSB0201	UQT-LHSB0301
1064	532	45°	UQT-LHSB0102	UQT-LHSB0202	UQT-LHSB0302
355	1064	0°	UQT-LHSB0103	UQT-LHSB0203	UQT-LHSB0303
355	1064	45°	UQT-LHSB0104	UQT-LHSB0204	UQT-LHSB0304

Please Contact ultiQuest for other dimensions in prototype and production quantities.

NOTES!

- The reflectance curves are based on actual measurements and may be different with production lots.
- The surface flatness is the reflected wavefront distortion of the surface befor coating.
- Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.