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TECHSPEC® Ultrafast Harmonic Separators



- Separates Ultrafast Harmonic Wavelengths
- Ultrafast Beamsplitter Coating with Low GDD
- $<\lambda/10$ Wavefront Distortion
- Designs for Ti:sapphire and Yb:doped Femtosecond Lasers

Common Specifications

Physical & Mechanical Properties

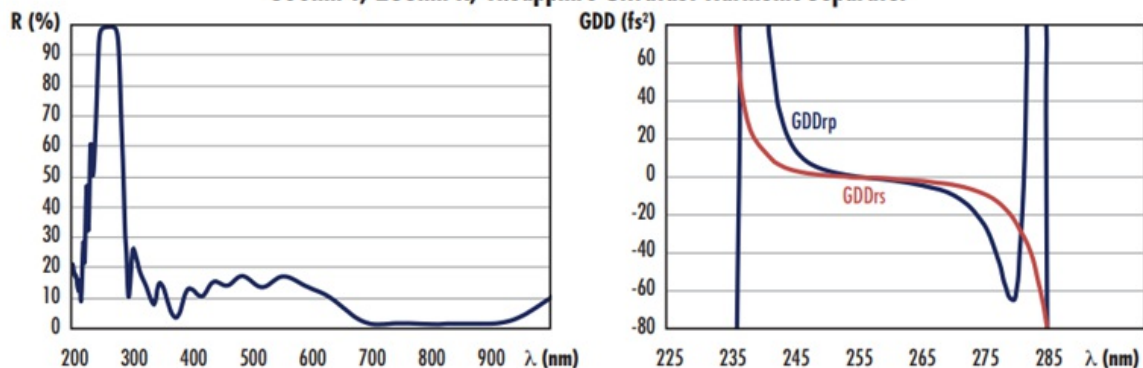
Construction:	Dichroic	Diameter (mm):	25.40 +0.00/-0.10
Parallelism (arcmin):	<3	Thickness (mm):	3.00 ±0.10

Optical Properties

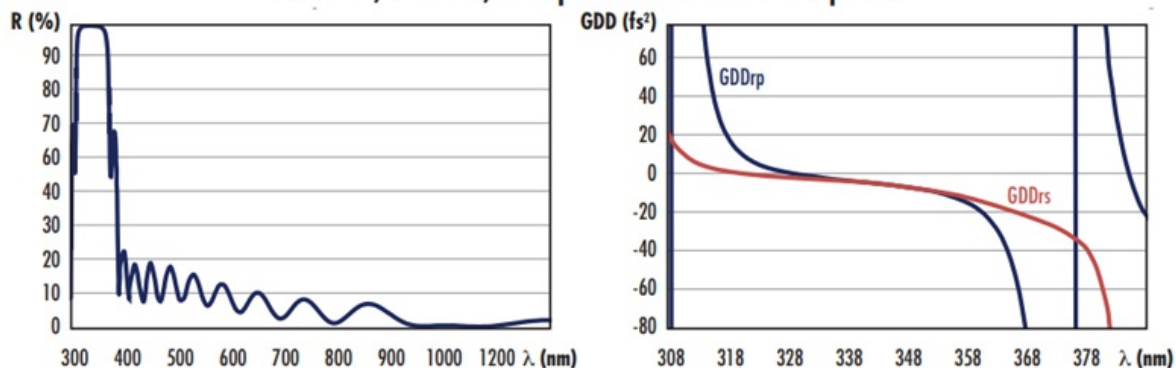
Substrate:	Fused Silica (Corning 7980)	Surface Flatness (P-V):	$\lambda/8$
Surface Quality:	10-5		

Technical Information

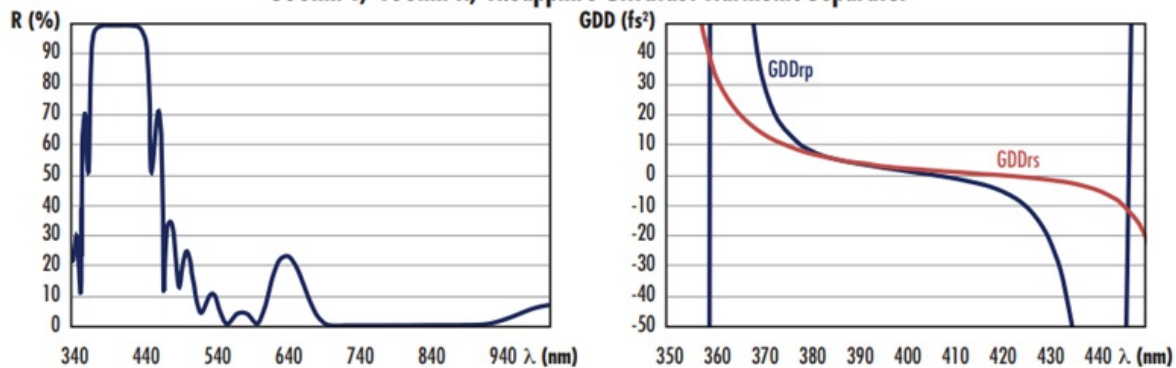
800nm T, 266nm R, Ti:sapphire Ultrafast Harmonic Separator



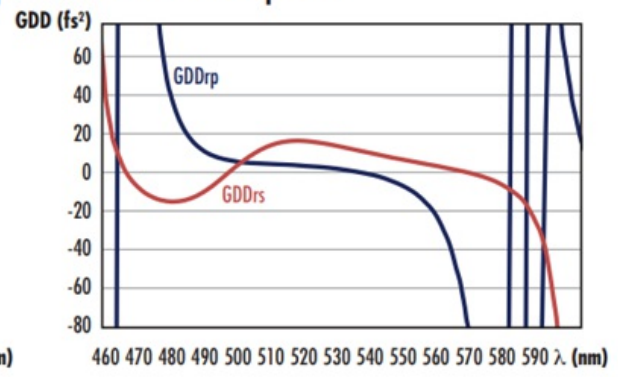
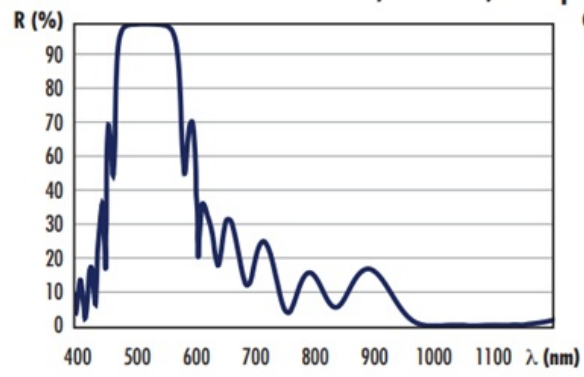
1030nm T, 343nm R, Yb:doped Ultrafast Harmonic Separator



800nm T, 400nm R, Ti:sapphire Ultrafast Harmonic Separator



1030nm T, 515nm R, Yb:doped Ultrafast Harmonic Separator



Products

Reflection Wavelength (nm)	Transmission Wavelength (nm)	AOI (°)	Coating Specification	Surface Flatness (P-V)	Stock Number	Price	Buy
266	800	45	Surface 1: R _{avg} >98% @ 258 - 272nm T _{avg} >98% @ 700 - 900nm Surface 2: R _{avg} <1% @ 700 - 900nm	λ/8	#12-662	€253,00 Qty 6+ €212,00	3-4 days
343	1030	45	Surface 1: R _{avg} >99% @ 323 - 354nm T _{avg} >98% @ 1000 - 1090nm Surface 2: R _{avg} <0.8% @ 1000 - 1090nm	λ/8	#12-664	€253,00 Qty 6+ €212,00	3-4 days
400	800	45	Surface 1: R _{avg} >99% @ 376 - 425nm T _{avg} >98% @ 700 - 900nm Surface 2: R _{avg} <1% @ 700 - 900nm	λ/8	#12-661	€253,00 Qty 6+ €212,00	3-4 days
515	1030	45	Surface 1: R _{avg} >99.5% @ 505 - 535nm T _{avg} >98% @ 1000 - 1090nm Surface 2: R _{avg} <0.8% @ 1000 - 1090nm	λ/8	#12-663	€253,00 Qty 6+ €212,00	3-4 days
266	800	0	Surface 1: R _{avg} >98% @ 258 - 272nm T _{avg} >98% @ 700 - 900nm Surface 2: R _{avg} <1% @ 700 - 900nm	λ/8	#22-676	€253,00 Qty 6+ €212,00	3-4 days

343	1030	0	Surface 1: $R_{avg} > 99\%$ @ 323 - 354nm $T_{avg} > 98\%$ @ 1000 - 1090nm Surface 2: $R_{avg} < 0.8\%$ @ 1000 - 1090nm	$\lambda/8$	#22-677	€253,00 Qty 6+ €212,00	3-4 days
400	800	0	Surface 1: $R_{avg} > 99\%$ @ 376 - 425nm $T_{avg} > 98\%$ @ 700 - 900nm Surface 2: $R_{avg} < 1\%$ @ 700 - 900nm	$\lambda/8$	#22-678	€253,00 Qty 6+ €212,00	3-4 days
515	1030	0	Surface 1: $R_{avg} > 99.5\%$ @ 505 - 535nm T_{avg} $> 98\%$ @ 1000 - 1090nm Surface 2: $R_{avg} < 0.8\%$ @ 1000 - 1090nm	$\lambda/8$	#22-679	€253,00 Qty 6+ €212,00	3-4 days

