





AO偏向器 セレクションガイド

AO Deflectors - 1D and 2 D - Shear Wave and Compressional

The Gooch & Housego AO deflectors have bandwidths of up to 560 MHz and processing times of 1 to 50 microseconds. These deflectors are used in applications for high speed 1 D and 2 D scanning, and optical signal processing. The deflectors, which are designated -6.5DEG are manufactured with the axis of acoustic propagation 6.5 degrees off of the axis crystal axis so that the diffraction efficiency is flatter across the bandwidth than conventional deflector devices.

AO Deflectors - 1D and 2 D - Shear Wave








Spectral Range (nm)	Deflector Specification page, by Model Number:	Image	Diffraction Eff. (%) @ I Input Polarization Input Polarization (Referenced to base)	Active Aperture H x L (mm)	Aperture Time (usec)	Bandwidth (MHz)	Resolvable Spots	Interaction Material Mode
440 to 514	45100-6 #1		>60 @ 514 Linear Parallel	6 x 6 to 32	10 to 50	50	485 to 2500	TeO2 Shear Wave
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
440 to 514	45100-5-6.5DEG-.51 #2		>70 @ 514 Linear Parallel	5 x 5	7.5	50	350	TeO2 Shear Wave
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
440 to 514	45100-5-6.5DEG-.51-X 45100-5-6.5DEG-.51-Y WITH 72003 MOUNT #2		>50 @ 514 Linear Parallel	5 x 5	7.5	50	350 x 350	TeO2 Shear Wave
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
633 to 850	45070-6 #1		>60 @ 514 Linear Parallel	6 x 6 to 32	10 to 50	40	388 to 2000	TeO2 Shear Wave



光技術をサポートする
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Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
633 to 850	45070-5-6.5DEG-.63 #1		>70 @ 514 Linear Parallel	5 x 5	7.5	40	300	TeO2 Shear Wave
633 to 850	45070-5-6.5DEG-.63-X 45070-5-6.5DEG-.63-Y WITH 72003 MOUNT #2		>50 @ 514 Linear Parallel	5 x 5	7.5	40	300 x 300	TeO2 Shear Wave
780 to 850	45050-5-6.5DEG-.8 #1		>70 @ 514 Linear Parallel	5 x 5	7.5	30	225	TeO2 Shear Wave
780 to 850	45050-5-6.5DEG-.8-X 45050-5-6.5DEG-.8-Y WITH 72003 MOUNT #2		>50 @ 514 Linear Parallel	5 x 5	7.5	30	225 x 225	TeO2 Shear Wave
1060	45035-5-6.5DEG-1.06 #1		>65 @ 514 Linear Parallel	5 x 5	7.5	20	180	TeO2 Shear Wave
1060	45035-5-6.5DEG-1.06-X 45035-5-6.5DEG-1.06-Y WITH 72003 #2		>40 @ 514 Linear Parallel	5 x 5	7.5	20	180 x 180	TeO2 Shear Wave
1060	45035-3-6.5DEG-1.06 #1		>65 @ 514 Linear Parallel	3 x 3	4.5	20	90	TeO2 Shear Wave



Range (nm)	Deflector Specification	Image	Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
1060	45035-3-6.5DEG-1.06-X 45035-3-6.5DEG-1.06-Y WITH 72003 #2		>45 @ 514 Linear Parallel	3 x 3	4.5	20	90 x 90	TeO2 Shear Wave







AO Deflectors – Compressional Wave




Spectral Range (nm)	Deflector Specification page, by Model	Image	Diffraction Eff. (%) @ I	Active Aperture H X L mm	Aperture Time @ Fill (mm) (usec)	Bandwidth (MHz)	Resolvable Spots	Interaction Material
355	45125-2/10-.355-I		>75% @ 355 Linear, perpendicular	2 X 10	1.25	50	60	Crystal Quartz

Range (nm)	Deflector Specification	Image	Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
450 - 800	46080-1-LTD #1		>80 Random or Linear Parallel	1 x 4	0.93 (4 mm) 0.23 (1 mm circular)	40	37 9	TeO2 Compressional

Range (nm)	Deflector Specification	Image	Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
450 - 800	46080-2-LTD #1		>80 Random or Linear Parallel	2 x 4	0.93 (4 mm) 0.46 (2 mm circular)	40	37 18	TeO2 Compressional

Range (nm)	Deflector Specification	Image	Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
450 - 800	46080-3-LTD #1		>80 Random or Linear Parallel	3 x 4	0.93 (4 mm) 0.69 (3 mm circular)	40	37 28	TeO2 Compressional

Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
632 to 850			1% / watt @ 820 Linear Perpendicular	0.1 x 2.6	0.4	500	200	LiNbO3
								Compressional
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
700-1100	46080-1-.85-LTD #1		>80	1 x 4	0.93 0.23 (1 mm circular)	20	19 5	TeO2 Compressional
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
700-1100	46080-2-.85-LTD #1		>80 Random or Linear Parallel	2 x 4	0.93 (4 mm) 0.46 (2 mm circular)	20	19 9	TeO2 Compressional
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
700-1100	46080-3-.85-LTD #1		>80 Random or Linear Parallel	3 x 4	0.93 (4 mm) 0.69 (3 mm circular)	20	19 14	TeO2 Compressional
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
800 to 850	451000-GAP		5% / watt @ 830 Linear Perpendicular	0.150 x 2	0.3	500	150	GaP
								Compressional
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
800 to 850	451500-GAP		5% / watt @ 820 Linear Parallel	0.07 x 1.25	0.2	560	112	GaP Compressional

Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
1060	46080-1-1.06-LTD		>80 Random or Linear Parallel	1 x 4	0.93 (4 mm) 0.23 (1 mm circular)	30	28 7	TeO2 Compressional
	#1							
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
1060	46080-2-1.06-LTD		>80 Random or Linear Parallel	2 x 4	0.93 (4 mm) 0.46 (2 mm circular)	30	28 13	TeO2 Compressional
	#1							
Range (nm)			Efficiency /Polarization	Aperture (mm)	Time (usec)	BW (MHz)	Spots	Material
1060	46080-3-1.06-LTD		>80 Random or Linear Parallel	3 x 4	0.93 (4 mm) 0.69 (3 mm circular)	30	28 20	TeO2 Compressional
	#1							