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BRIMROSE



Multichannel VIS Deflectors

Model Numbers	MGPD-300-200	MGPD-800-400	MGPD-800-500
Laser Wavelength	633 nm	633 nm	633 nm
Substrate	Gallium Phosphide (GaP)		
Acoustic Mode	Longitudinal	Shear	Longitudinal
Active Aperture	1.0 x 13.0 mm	0.075 x 9.0 mm	0.075 x 7.0 mm
Center Frequency	300 MHz	800 MHz	800 MHz
Bandwidth (3dB)	200 MHz	400 MHz	500 MHz
Optical Transmission	80%	80%	80%
Maximum Diffraction Efficiency	30%	10%	30%
Time-Bandwidth Product	400	800	500
Time Aperture	2.0 μ sec	2.0 μ sec	1.0 μ sec
Number of Channels (Please Specify when placing order)	8, 16, or 32	8, 16, or 32	8, 16, or 32
Center-Center Channel Spacing	2.0 mm	0.5 mm	0.5 mm
Channel Isolation	20 dB	20 dB	20 dB
Acoustic Velocity	6.31E+3 m/sec	4.2E+3 m/sec	6.31E+3 m/sec
Maximum Electric Input Power	1 Watt	1 Watt	1 Watt
Input Impedance	50 Ohms	50 Ohms	50 Ohms
V.S.W.R.	2.1:1	2.1:1	2.1:1
Optical Polarization	Linear	Linear	Linear
Case	Custom	Custom	Custom

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Multichannel VIS Deflectors

Model Numbers	MTED-70-40	MTED-80-30	MTED-300-200
Laser Wavelength	633 nm	633 nm	633 nm
Substrate	Tellurium Dioxide (TeO ₂)		
Acoustic Mode	Shear	Longitudinal	Longitudinal
Active Aperture	1.0 x 12.0 mm	1.0 x 20.0 mm	1.0 x 10.0 mm
Center Frequency	70 MHz	80 MHz	300 MHz
Bandwidth (3dB)	40 MHz	30 MHz	200 MHz
Optical Transmission	>95%	>95%	>95%
Maximum Diffraction Efficiency	40%	70%	30%
Time-Bandwidth Product	720	141	400
Time Aperture	18.0 μsec	4.7 μsec	2.0 μsec
Number of Channels (Please Specify when placing order)	8, 16, or 32	8, 16, or 32	8, 16, or 32
Center-Center Channel Spacing	2.0 mm	2.5 mm	2.0 mm
Channel Isolation	25 dB	25 dB	25 dB
Acoustic Velocity	617 m/sec	4.2E+3 m/sec	4.2E+3 m/sec
Maximum Electric Input Power	1 Watt	1 Watt	1 Watt
Input Impedance	50 Ohms	50 Ohms	50 Ohms
V.S.W.R.	2.1:1	2.1:1	2.1:1
Optical Polarization	Circular	Linear	Linear
Case	Custom	Custom	Custom

Model Numbers	MTED-600-250	MTED-800-300
Laser Wavelength	633 nm	633 nm
Substrate	Tellurium Dioxide (TeO ₂)	
Acoustic Mode	Longitudinal	Longitudinal
Active Aperture	0.18 x 5.0 mm	0.076 x 5.0 mm
Center Frequency	600 MHz	800 MHz
Bandwidth (3dB)	250 MHz	300 MHz
Optical Transmission	>95%	>95%
Maximum Diffraction Efficiency	25%	20%
Time-Bandwidth Product	250	300
Time Aperture	1.0 μsec	1.0 μsec
Number of Channels(Please Specify when placing order)	8, 16, or 32	8, 16, or 32
Center-Center Channel Spacing	0.5 mm	0.5 mm
Channel Isolation	25 dB	25 dB
Acoustic Velocity	4.2E+3 m/sec	4.2E+3 m/sec
Maximum Electric Input Power	1 Watt	1 Watt
Input Impedance	50 Ohms	50 Ohms
V.S.W.R.	2.1:1	2.1:1
Optical Polarization	Linear	Linear
Case	Custom	Custom