

Acousto-Optic Devices

AO Q-SWITCHES

Model	AO Material	Wavelength	Central Frequency	Aperture	Diffraction Loss	VSWR	RF Connection	Cooling Mode
SGQ27-1064-2	Crystal Quartz	1064nm	27.12MHz	5.0×10mm	≥85%	≤1.2	BNC	Water
SGQ41-1064-2	Crystal Quartz	1064nm	40.68MHz	4.0×10mm	≥85%	≤1.2	BNC	Water
SGQ41-1064-1	Crystal Quartz	1064nm	40.68MHz	1.5×6mm	≥80% (⊥)	≤1.2	SMA	Conduction
SGQ70-1064-1	Crystal Quartz	1064nm	70MHz	1.2×6mm	≥70% (⊥)	≤1.2	SMA	Conduction
SGQ68-1064-2	Crystal Quartz	1064nm	68MHz	4.0×10mm	≥85% (⊥)	≤1.2	SMA	Water
SGQ41-2000-1	Crystal Quartz	2000nm	40.68MHz	1.2×6mm	≥70% (⊥)	≤1.2	SMA	Conduction
SGQ41-2000-2	Crystal Quartz	2000nm	40.68MHz	2.0×10mm	≥80% (⊥)	≤1.2	SMA	Water

AO MODULATORS

Model	AO Material	Wavelength	Central Frequency	Repetition Frequency	Extinction Ratio	Aperture	Efficiency	RF Connection
SGT80-1550-1	Tellurium Dioxide	1550nm	80MHz	4MHz	>1000:1	1.0mm	≥70%	SMA
SGT80-1064-1	Tellurium Dioxide	1064nm	80MHz	4MHz	>1000:1	1.0mm	≥80%	SMA
SGT80-633-1	Tellurium Dioxide	633nm	80MHz	4MHz	>1000:1	1.0mm	≥85%	SMA

AO FREQUENCY SHIFTERS

Model	AO Material	Wavelength	Frequency	Stability	Aperture	Diffraction Efficiency	RF Connection	
SGY40-1550-1	Tellurium Dioxide	1550nm	40MHz	1×10 ⁻⁶ /2h	1.0mm	≥70%	SMA	
SGY80-1550-1	Tellurium Dioxide	1550nm	80MHz	1×10 ⁻⁶ /2h	1.0mm	≥70%	SMA	
SGY40-1550-1T	Tellurium Dioxide	1550nm	40MHz	1×10 ⁻⁶ /2h	1.0mm	≥70%	SMB	Integrated
SGY40-633-1	Tellurium Dioxide	633nm	40MHz	1×10 ⁻⁶ /2h	1.0mm	≥85% (Linearly polarized light)	SMA	
SGY80-633-1	Tellurium Dioxide	633nm	80MHz	1×10 ⁻⁶ /2h	1.0mm	≥85%	SMA	
SGY40-633-1T	Tellurium Dioxide	633nm	40MHz	1×10 ⁻⁶ /2h	1.0mm	≥85% (Linearly polarized light)	SMB	Integrated

AO DEFLECTORS

Model	AO Material	Wavelength	Central Frequency	Bandwidth	Aperture	Diffraction Efficiency	Deflection Angle	RF Connection
SGP85-633-1	Tellurium Dioxide	633nm	85MHz	40MHz	1.0mm	≥75%	≥3.3°@633nm	SMA

AO TUNABLE FILTERS

Model	AO Material	Wavelength	Aperture	Resolution	Diffraction Efficiency	VSWR	RF Connection
SGL130-V-2	Tellurium Dioxide	450nm~950nm	8mm×8mm	2nm~10nm	≥60%	≤1.3	SMA
SGL100-NI/SI-2	Tellurium Dioxide	900nm~2400nm	10mm×10mm	3nm~12nm	≥50%	≤1.3	SMA

AO FIBER PIGTAILED AO DEVICES

Model	AO Material	Wavelength	Optical Power	Insertion Loss	Extinction Ratio	Polarisation Extinction ratio	Pulse Rise Time	Polarization Loss	Fiber	Fiber Connection
SGQF100-1064-1,Q-Switch	Tellurium Dioxide	1064nm	3W	≤2.5dB	≥50dB	/	≤60ns	≤0.5dB	Nufem 10/125 GSF	Bare fibre
SGTF200-1064-1P,Modulator	Tellurium Dioxide	1064nm	500mW	≤3.5dB	≥50dB	≥16dB	≤12ns	/	PM980	FC/APC
SGTF150-1064-1P,Modulator	Tellurium Dioxide	1064nm	500mW	≤3.0dB	≥50dB	≥16dB	≤25ns	/	PM980	FC/APC
SGTF100-1064-1P,Modulator	Tellurium Dioxide	1064nm	500mW	≤2.5dB	≥50dB	≥16dB	≤45ns	/	PM980	FC/APC
SGTF200-1550-1P,Modulator	Tellurium Dioxide	1550nm	500mW	≤5.0dB	≥50dB	≥16dB	≤12ns	/	PM1550	FC/APC
SGTF150-1550-1P,Modulator	Tellurium Dioxide	1550nm	500mW	≤4.0dB	≥50dB	≥16dB	≤25ns	/	PM1550	FC/APC
SGTF100-1550-1P,Modulator	Tellurium Dioxide	1550nm	500mW	≤3.0dB	≥50dB	≥16dB	≤45ns	/	PM1550	FC/APC
SGTF150-1550-1TP,Integrated Modul	Tellurium Dioxide	1550nm	500mW	≤4.0dB	≥50dB	≥16dB	≤25ns	/	PM1550	FC/APC
SGYF40-1550-1P,Frequency Shifter	Tellurium Dioxide	1550nm	500mW	≤2.5dB	≥50dB	≥16dB	≤55ns	/	PM1550	FC/APC
SGYF80-1550-1P,Frequency Shifter	Tellurium Dioxide	1550nm	500mW	≤3.0dB	≥50dB	≥16dB	≤45ns	/	PM1550	FC/APC