



AO Qスイッチ セレクションガイド

Q-Switches

AO Q-Switches for Intra-Cavity

| Spectral Range (nm) | Q-Switch Specification page, by Model Number: | Image | Active Aperture (mm) | Center Frequency (MHz) | Rise Time (ns/mm beam dia.) | Optical Power Density /(cm ²) Ave./Pk | Interaction Material /Mode |
|---------------------|---|---|----------------------|----------------------------------|--|---|--|
| 1064 | Industry Standard Q-Switch I-QSxx-xx-x |  | 1.0 to 8.0 | 24.00 27.12 40.68 68.00 | 109 for Compressional Wave Devices 173 for Shear Wave Devices | >1GW | Fused Silica Compressional or Shear |





| Range (nm) | Stallion Q-Switch | Image | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) /Mode | Optical Power | Material /Mode |
|------------|-----------------------|---|---------------|----------------------------------|--|---------------|--|
| 1064 | I-QSxxx-xxxx4G-x5-ST1 |  | 1.0 to 8.0 | 24.00 27.12 40.68 68.00 | 109 for Compressional Wave Devices 173 for Shear Wave Devices | >1GW | Fused Silica Compressional or Shear |





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| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) /Mode | Optical Power | Material /Mode |
|------------|---|--|---------------|--------------------|-------------------------|---------------|---|
| 1064 | VHE Q-Switch I-QSxxx-xxxV4G-x5-ST1 | The 'Very High Efficiency' Q-Switch is specifically designed for very high gain, high power linearly polarised Nd:YAG or Nd:YVO4 lasers. It is supplied in our 'Stallion' water-cooled housing. | 1.6 to 3.0 | 68.00 | 109 | >1GW | Fused Silica Compressional VHE (double defraction) |
| | |  | | | | | |
| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) /Mode | Optical Power | Material /Mode |
| 1064 | Super Q-Switch QS2x-xD-x-xxx | The 'Super' Q-Switch is designed for very high gain, high power unpolarised Nd:YAG lasers. It is water-cooled & available in a range of active apertures. | 1.6 to 6.5 | 24.00 27.12 | 109/109 | >1GW | Fused Silica Compressional D Orthogonal |
| | |  | | | | | |
| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
| 1064 | Low Outgassing QS080-0.8C10G-8-GH20 | This is a low power conduction-cooled Q-Switch manufactured using special techniques to minimize | 0.8 | 80.00 | 109 | >1GW | Crystal Quartz Compressional |
| | |  | | | | | |
| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
| 1064 | 32mm Compact Q-Switch QS041-1.8C10G-4-GH21 | Industry standard conduction-cooled Q-Switch for polarized lasers, particularly end pumped Nd:YAG & Nd:YVO4. Utilizing Crystal Quartz for optimum thermal performance and high damage threshold. | 1.8 | 41.00 | 109 | >1GW | Crystal Quartz Compressional |
| | |  | | | | | |

| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
|------------|-----------------------|--|---------------|-----------------|-------------------|---------------|---------------------------------|
| | 32mm Compact Q-Switch | Industry standard conduction-cooled Q-Switch for polarized lasers, particularly end pumped Nd:YAG & Nd:YVO4. Utilizing Crystal Quartz for optimum thermal performance and high damage threshold. | | | | | |
| 1064 | QS080-1C10G-4-GH25 |  | 1 | 80.00 | 109 | >1GW | Crystal Quartz Compressional |

| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
|------------|-------------------------|---|---------------|-----------------|-------------------|---------------|-----------------------|
| | 10mm Miniature Q-Switch | Ultra compact, conduction cooled Q-Switch for low power unpolarized lasers: | | | | | |
| 1064 | QS080-1C2G-E-3D1 |  | 1 | 80.00 | 153 | >1GW | TeO2 Compressional |

| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
|-------------------------------|--------------------------|--|---------------|-----------------|-------------------|---------------|---------------------------------|
| | Compact Q-Switch | This is a low power Q-Switches for random polarized lasers: (Diode Pumped Lasers) | | | | | |
| 1064 Optional Connector | 33041-XQ -BNC -SMA |  | 1.5 | 40.68 | 115 | 50KW/500MW | Crystal Quartz Compressional |

| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
|-------------------------------|--------------------------|---|---------------|-----------------|-------------------|---------------|---------------------------------|
| | Compact Q-Switch | This is a low power Q-Switches for random polarized lasers: (Diode Pumped Lasers) | | | | | |
| 1064 Optional Connector | 33080-XQ -BNC -SMA |  | 1 | 80.00 | 115 | 50KW/500MW | Crystal Quartz Compressional |

| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
|-------------------------------|------------------|---|---------------|-----------------|-------------------|---------------|-----------------------|
| 1064 Optional Connector | Compact Q-Switch | This is a low power Q-Switches for random polarized lasers: (Diode Pumped Lasers) | 1.5 | 27.12 | 165 | 120KW/500MW | SF10 Compressional |
| | 34027-1.5-SF10 | | | | | | |
| | -BNC -SMA | | | | | | |



| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
|-------------------------------|------------------|---|---------------|-----------------|-------------------|---------------|-----------------------|
| 1064 Optional Connector | Compact Q-Switch | This is a low power Q-Switches for random polarized lasers: (Diode Pumped Lasers) | 1.5 | 40.68 | 165 | 120KW/500MW | SF10 Compressional |
| | 34041-1.5-SF10 | | | | | | |
| | -BNC -SMA | | | | | | |



| Range (nm) | | | Aperture (mm) | Frequency (MHz) | Rise Time (ns/mm) | Optical Power | Material /Mode |
|-------------------------------|------------------|---|---------------|-----------------|-------------------|---------------|-----------------------|
| 1064 Optional Connector | Compact Q-Switch | This is a low power Q-Switches for random polarized lasers: (Diode Pumped Lasers) | 1 | 80.00 | 165 | 120KW/500MW | SF10 Compressional |
| | 34080-1-SF10 | | | | | | |
| | -BNC -SMA | | | | | | |



Custom and OEM AO Devices and Drivers are available and Gooch & Housego will work with you to meet your needs.

Use the “Request Information Form” on the pull down menu on the main web page to submit your requirements for AO Devices and Drivers.