The Q1025-TxxL is a miniature TeO$_2$, conduction cooled high efficiency acousto-optic Q-switch designed for use with DPSS Nd:YLF and Nd:YAG lasers.

**Specifications**

- **Acoustic Frequency:** 27.12, 80.00MHz
- **Interaction Material:** Tellurium Dioxide
- **Wavelength:** 1047nm to 1064nm
- **A/R Coating:** < 0.25% / surface
- **Active Aperture, H:** 1.0mm *
- **Clear Aperture:** 2.0mm
- **Acoustic Mode:** Longitudinal
- **Rise/Fall time:** 155nsec / mm beam waist
- **Polarization:** Insensitive
- **Transmission:** > 99.0% (single pass)
- **Cavity Insertion Loss:** 10% max, <5% typical
- **Damage Threshold:** > 250MW/cm$^2$
- **RF power:** 2.5W average (max)
- **RF power:** H=1.0mm 1.5W, H=1.5mm 2.1W
- **Diffraction Efficiency:** >85%, >80%
- **Cooling:** Conduction
- **Input Impedance:** 50 Ohms
- **VSWR:** < 1.3:1
- **Operating Temperature:** -50ºC - +70ºC

**Model Selection:**

<table>
<thead>
<tr>
<th>Freq</th>
<th>Active Aperture</th>
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</thead>
<tbody>
<tr>
<td>Q1025 -</td>
<td>T xx L - H</td>
</tr>
<tr>
<td>27.12MHz</td>
<td>27 1.0 1.0mm</td>
</tr>
<tr>
<td>80.00MHz</td>
<td>80 1.5 1.5mm</td>
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</tbody>
</table>

**Note:** ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Quality Assured.
In-house: Crystal Growth, Optical Polishing, A/R coating, Vacuum Bonding

ISOMET CORP, 5263 Port Royal Rd, Springfield, VA 22151, USA.
Tel: (703) 321 8301        Fax: (703) 321 8546
E-mail: ISOMET@ISOMET.COM   Web Page: WWW.ISOMET.COM
Ensure adequate heatsinking through mounting surface, especially at higher RF powers.

Recommended Drive Electronics

RF Driver with Waveform Generation  AQS1004-FC-x
RF Driver with Basic Modulation control  531C-27 / 532C

* Please contact Isomet for alternative apertures.