The Q1087-aQ80L is a longitudinal (compressional) mode Quartz, conduction cooled acousto-optic Q-switches designed for use with short cavity polarized DPSS Nd:YLF and Nd:YAG lasers.

Specifications

- **Acoustic Frequency:** 80MHz
- **Interaction Material:** Quartz
- **Wavelength:** 1047nm to 1064nm
- **A/R Coating:** < 0.3% / surface

- **Active Aperture:** 1.0mm
- **Clear Aperture:** 3.0mm
- **Acoustic Mode:** Longitudinal
- **Rise/Fall time:** 114nsec / mm beam waist

- **Polarization:** Linear, vertical w.r.t. base
- **Transmission:** > 99.5% (single pass)
- **Cavity Insertion Loss:** 10% max, <5% typical
- **Damage Threshold:** >500MW/cm²

- **RF power:** Up to 6W (max)

- **Diffraction Efficiency:**
  - RF = 3W: >45%
  - RF = 5W: >65%
  - RF = 6W: >70%

- **VSWR:** <1.2
- **Input Impedance:** 50 Ohms
- **Cooling:** Conduction

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
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

Quality Assured.
In-house: Crystal Growth,
Optical Polishing,
A/R coating, Vacuum Bonding
Q1087-aQ80L-1
AO Q-SWITCH

Outline Drawing

Recommended Drive Electronics

RF Driver with Waveform Generation AQS1010-FC-x
RF Driver with Basic Modulation control 532C-6-x