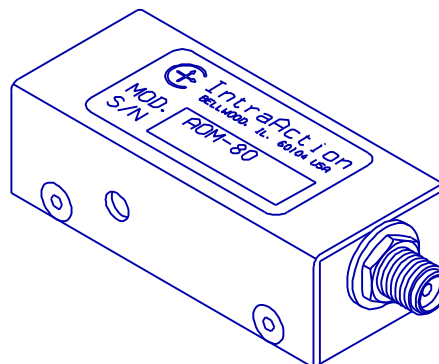


MODEL AOM-80 MODEL AOM-110
ACOUSTO-OPTIC MODULATOR

- HIGH OPTICAL POWER CAPABILITY
- INTENSITY MODULATION
- OPTICAL FREQUENCY SHIFTING
- HIGH RELIABILITY
- EXCELLENT TEMPERATURE STABILITY



SPECIFICATIONS

| | |
|-------------------------------|--|
| Optical Wavelength Range | 440 nm to 700 nm |
| Acousto-optic Material | Dense Flint Glass |
| Static Optical Insertion Loss | 2 Percent (633nm) |
| Optical Polarization | Any |
| RF Input Impedance | 50 Ohms |
| RF Connector | SMA |
| Size(less connector) | 2.00 D x 0.63 H x 0.88 W inches 50.8 D x 16.1 H x 22.4 W mm |

MODEL AOM-80

| | | |
|-------------------------------|-------------------|-------------------|
| Acoustic Frequency | 80 MHz | |
| Active Aperture Height | 1 mm | |
| Optical Wavelength | <u>442 nm</u> | <u>633 nm</u> |
| Beam Separation | 9.7 mrad | 13.9 mrad |
| RF Drive Power | 1 watt | 2 watts |
| Static Optical Insertion Loss | 7 percent | 2 percent |
| Beam Diameter | 0.18 mm / 0.36 mm | 0.18 mm / 0.36 mm |
| Optical Rise Time | 35 nsec / 70 nsec | 35 nsec / 70 nsec |
| Modulation Bandwidth | 15 MHz / 7.5 MHz | 15 MHz / 7.5 MHz |
| Diffraction Efficiency | 80 % / 85 % | 70 % / 80 % |

MODEL AOM-110

| | | |
|-------------------------------|-------------------|-------------------|
| Acoustic Frequency | 110 MHz | |
| Active Aperture Height | 0.6 mm | |
| Optical Wavelength | <u>442 nm</u> | <u>633 nm</u> |
| Beam Separation | 13.4 mrad | 19.2 mrad |
| RF Drive Power | 1 watt | 2 watts |
| Static Optical Insertion Loss | 5 percent | 2 percent |
| Beam Diameter | 0.14 mm / 0.28 mm | 0.14 mm / 0.28 mm |
| Optical Rise Time | 24 nsec / 48 nsec | 24 nsec / 48 nsec |
| Modulation Bandwidth | 20 MHz / 10 MHz | 20 MHz / 10 MHz |
| Diffraction Efficiency | 80 % / 80 % | 70 % / 70 % |