The model M1141 is specifically designed for operation as an 80MHz acousto-optic frequency-shifter at 633nm.

**FEATURES**
- Small Size
- Low Drive Power
- Good Temperature Stability

**DRIVERS**
- Model 522C-L (Digital)
- Model 532C-L (Analog)

**SPECIFICATIONS**
- Standard Operating Wavelength: 633nm (Others available)
- Interaction Material: Lead Molybdate (PbMoO₄)
- Active Aperture: 1mm
- Centre Frequency ($f_0$): 80MHz
- RF Bandwidth ($\Delta f$): 20MHz
- Input Impedance: 50Ω (Nominal)
- VSWR: < 1.5 : 1 at $f_0$
- Laser Polarization: Any
- Optical Power: < 2W

**PERFORMANCE**
- Wavelength: 633 nm
- RF Drive Power: < 0.6 W
- Bragg Angle (@ 80MHz): 6.98 mrad
- Beam Separation (@ 80 MHz): 13.95 mrad
- Diffraction Efficiency: ≥ 80% min, > 85% typ
- Static Insertion loss: < 3% max, < 2% typ