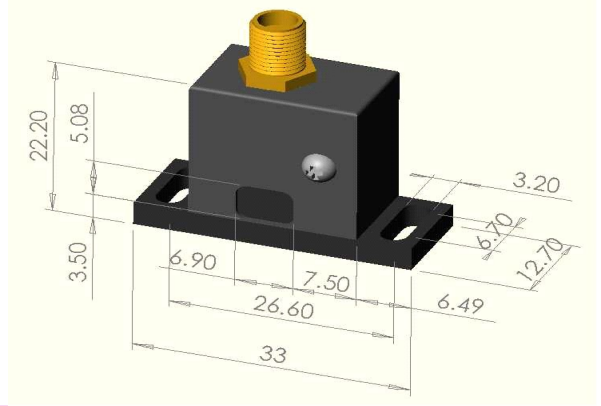


AO Frequency Shifter

- *low power consumption*
- *compact size*
- *high frequency*



MODEL # TEF-1500-100-780 Specifications:

Wavelength of Operation	780 nm
Optical Power Density	5 W/mm ² (100 W/mm ² with HP AR coating)
Carrier Frequencies*	1500 MHz
Bandwidth (3 dB)	100 MHz
Active Aperture	0.075 mm
Bragg Angle	140 mrad
Separation Angle	279 mrad
Acoustic Velocity	4.2 E+3 m/s
Maximum RF Power	1.0 W
Optical Transmission	98%
Diffraction Efficiency	~15-20%
Input Impedance	50 ohms
V.S.W.R.	2.1:1
Optical Polarization	linear (vertical or horizontal)
Case Type	air-cooled

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AO Modulator Driver

- *Laboratory version*



MODEL # FF-1500-B2-F1 Specification:

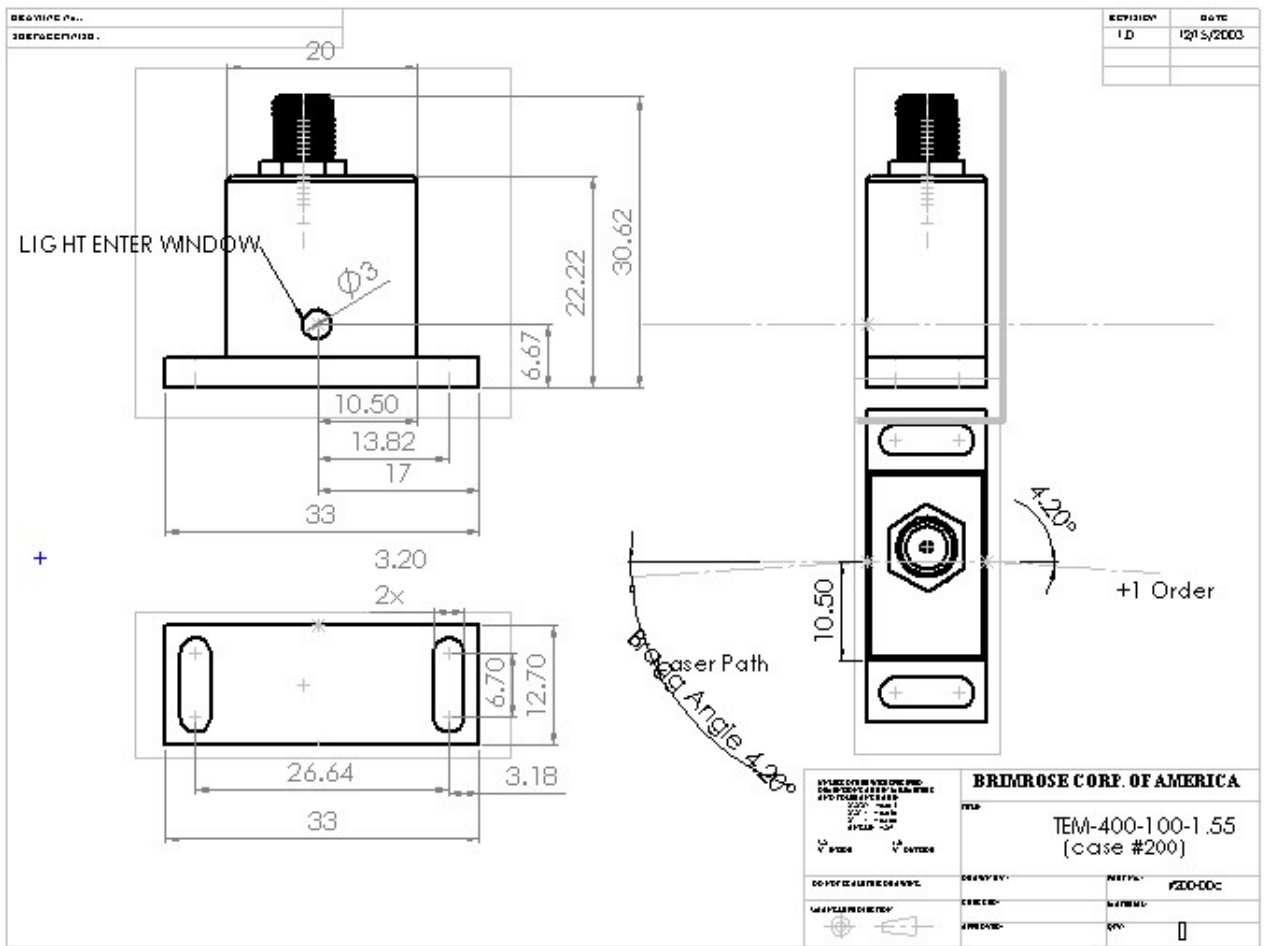
Frequency	1500 MHz
Frequency Control	Quartz crystal referenced phase locked loop.
Frequency Accuracy	0.015%
Harmonic Content	≤ -10 dBc
Stability	0.0015% minimum after 15 minute warm-up.
Output Power	1 Watt max. Power level is optimized for compatible AO device.
Amplitude Modulation	TTL Compatible; DC-50 MHz
Modulation Input	0-5 V; 330 Ω Input Impedance
Operating Power	90-240 VAC +/-10% 50-60Hz, 55W max.
Enclosure	The unit will be packaged in a 7.5 in wide by 3.5 in high by 9.75 in deep instrument case. The rear panel heat sink increases depth to 10.5 inch max. Size is exclusive of connectors.
Environmental	Nominal Laboratory conditions: Max ambient temperature - +35 deg C; the unit is not sealed against moisture or condensing humidity. A detachable AC line cord is provided.

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Mechanical Drawings



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