ZMI 7702 Laser Head

P/N's	Power	Beam Diameter	Mount
8070-0102-31	>400 µW	6 mm	Narrow
8070-0102-32		3 mm	
8070-0102-33	>400 µW	6 mm	Wide
8070-0102-34		3 mm	
8070-0102-35	>525 µW	6 mm	Narrow
8070-0102-36		3 mm	

Physical Characteristics	
Dimensions	See Figure
Weight	5.5 kg
Materials	Casting- Aluminum Narrow Feet- Ultem 2400
Nominal Cable Clearance	135 mm

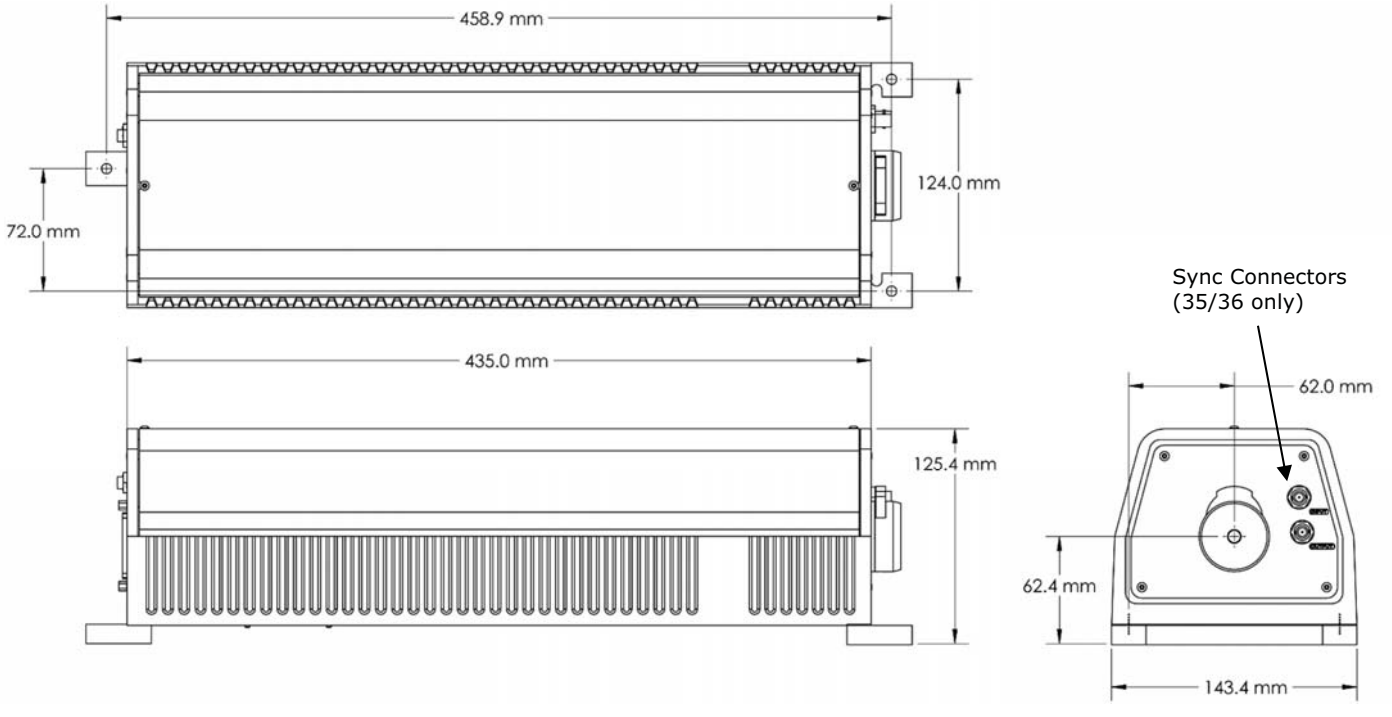
Electrical	
Power Requirements (max)	+15 VDC ± 0.5 V @ 2.1 A -15 VDC ± 0.5 V @ 1.2 A
Power Dissipation (max)	39 W during operation 50 W during warm-up

Laser Characteristics	
Type	Helium-Neon, CW, heterodyne, linearly polarized
Output Power	See P/N section
Beam Diameter	See P/N section

Laser Characteristics continued	
Beam Pointing Stability	<0.5 arc/°C
Time from turn-on to laser light	<10 sec typical, 70 sec maximum
Time to wavelength stability	<10 minutes, typical
Frequency Difference	20 MHz ± 1600 Hz
Nominal Vacuum Wavelength	F1: 632.991501 nm (vertical polarization) F2: 632.991528 nm (horizontal polarization)
Vacuum Wavelength Lifetime Accuracy	±0.1 ppm
Vacuum Wavelength Stability	0.005 ppm/1 hr 0.01 ppm/24 hrs
DHHS Laser Safety Classification	Class II, conforms to NCDRH regulations

Environmental	
Operating Temperature	10 to 30°C
Non-operating Temperature	-40 to 75°C
Operating Humidity	0 to 90%, noncondensing
Non-operating Humidity	0 to 90%, noncondensing
Shock (non-operational)	11 msec 40g shock on each of three orthogonal axes

Configurations 31/32/35/36



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Characterisation, Measurement & Analysis

SS-0079 02/20

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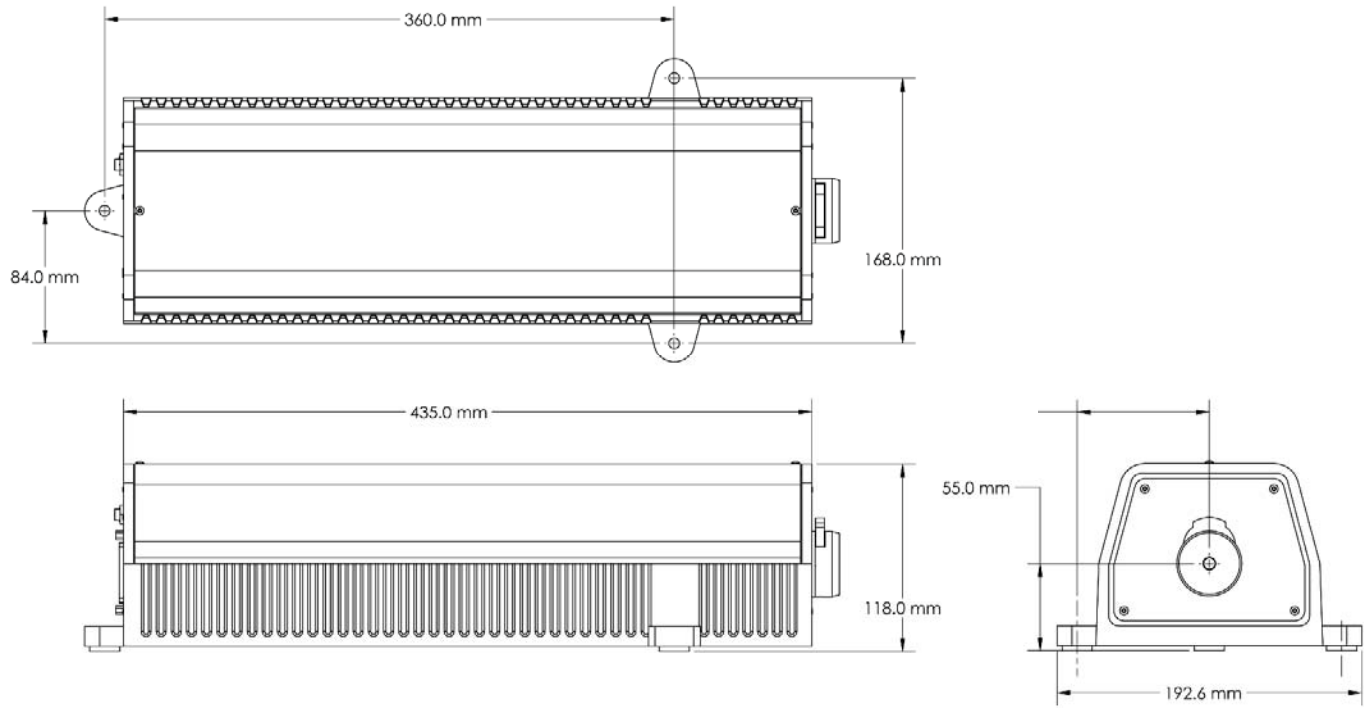
ZMI 7702 Laser Head

Configurations 33/34



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