

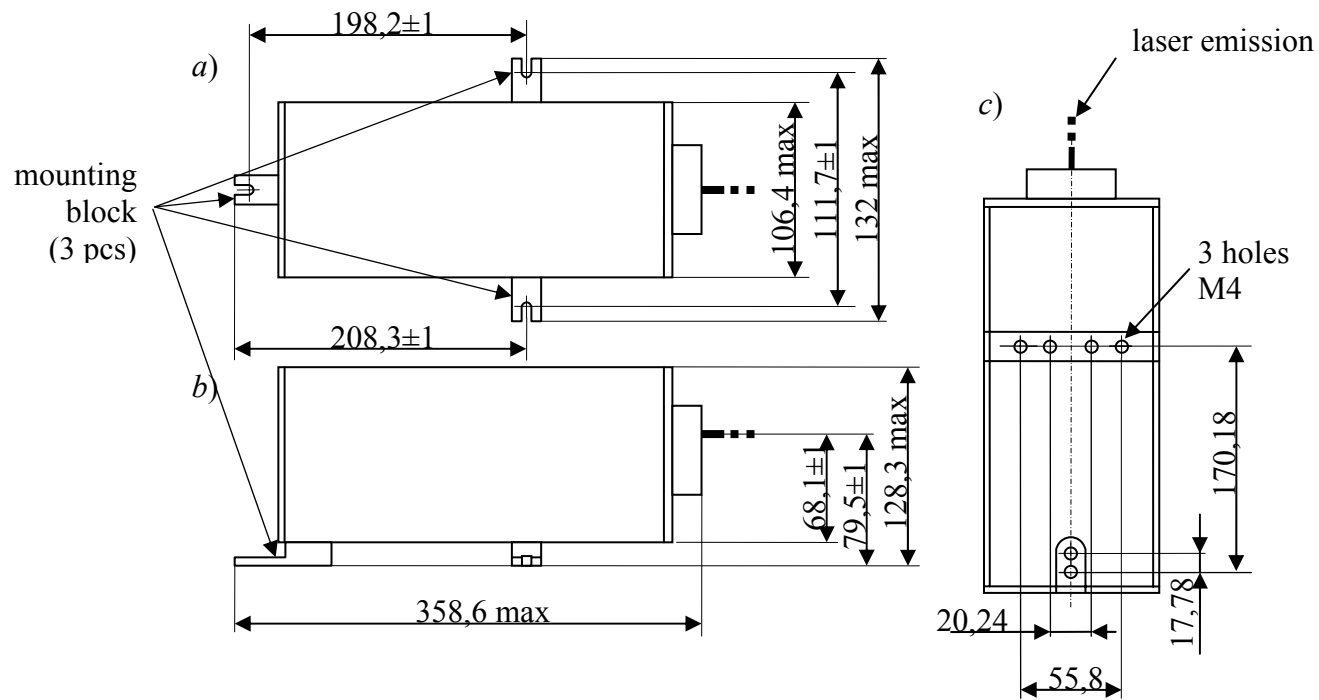
LGN-212-1, LGN-212-1M LASERS

He-Ne gas lasers of continuous operation mode, double-frequency, stabilized. Intended to be used as a part of laser interferometers applied in various scientific and technical fields, including coordinate systems of precision opto-mechanical equipment for manufacturing of electronic engineering devices, in machine-tool and mechanical industry.



Parameters	LGN-212-1	LGN-212-1M (-/003/009)	LGN-212-1M-A (-/003/009)	LGN-212-1M-B (-/003/009)	LGN-212-1M-C (-/003/009)	LGN-212-1M-D (-/003/009)
Wavelength, μm	0.63					
Spectral structure	double-frequency					
Differential frequency of the orthogonal components, MHz	1.5-2.2	1.5-2.2	2.0-2.4	2.4-3.0	3.0-3.4	3.4-4.0
Output power, mW, not less	0.2					
Beam diameter, mm, not more	5-7	5-7 / 3-5 / 7-9				
Beam divergence, mrad, not more	0.5					
Relative power instability during 8 hrs of continuous operation, %, not more	10	2				
Relative optical frequency instability, arbitrary units, not more	1×10^{-8}					
Power supply	DC $\pm 15\text{V}$					
Power consumption, W, not more	30					
Operating temperature range, $^{\circ}\text{C}$	+10...+40					
Mean time to failure, h, not less	2000					
Mean life, h, not less	5000	10000				
Dimensions, mm, not more	392x182x133	358.6x132x128.3				
Mass, kg, not more	6.0					

Dimensional drawing



a – top view, *b* – side-view, *c* – bottom view

LGN-212-1M

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