



## Helium-Neon laser heads

Since 1988 SPECTRAL manufactures helium-neon lasers employing the more suitable technologies and materials to assure reliability and performances.

### Features:

Low thermal expansion hard borosilicate glass  
Coaxial internal mirror design  
High temperature sealing techniques (hard sealed)  
Selected isotopic gas mixture  
Non-evaporable getter  
Discharge return inside cathode  
Independent electrical cathode connection  
Over 10,000 hours lifetime

SPECIFICATIONS			Rev. Mar. 2009
Model	RMM225L	RMM355L	RMM505L
Minimum CW output power at 632.8 nm (mW)	30	42	60
Transverse mode	multimode	multimode	multimode
Beam diameter (mm)	3	3	3
Beam divergence (mRad)	3.2	2.7	2.3
Polarization	random	random	random
Operating voltage (Vdc ± 15%)	2750	3300	4100
Operating current (mA ± 0.3)	10	10	12.5
Maximum start voltage (kV)	10	12	16
Recommended minimum series anode ballast (kOhm)	included	included	included
Longitudinal mode spacing (c/2L) (MHz)	230	175	138
Weight (g)	1700	2000	2500
Operating temperature (°C)	-20 to +50	-20 to +50	-20 to +50
Operating position	any	any	any
Dimensions (mm)	55x55x700	55x55x895	55x55x1100
Maximum output power (mW)	60	90	120
BRH Classification	IIIb	IIIb	IIIb
Power supply	SPS200	SPS200	SPS200

\*\* Typical performances for CW or quasi-CW use.

All models are warranted to be free from defects in materials and workmanship for 12 months from date of shipment.  
All details and specifications subject to change without notice.



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