

200 mJ Q-switched Er:Glass Laser



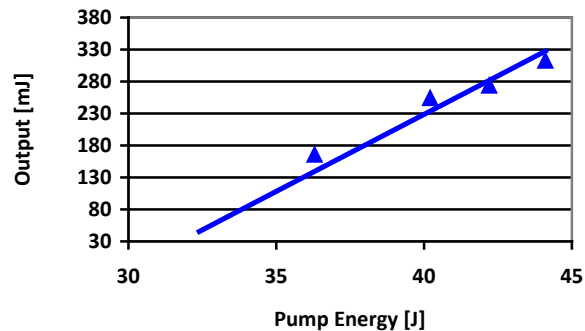
Dual Configuration of 200mJ Q-switched Laser

Compact, Flashlamp Pumped, Acousto-Optic Q-switched Laser at 1535 nm

Specifications

Parameter	Nominal Value
Wavelength	1535 nm
Pulse Energy	200mJ
Pulse Width	50ns FWHM
Pulse Power	4 MW
Repetition Rate	1 Hz
Laser Rod Size	5x115 mm

200 mJ Q-switched Laser Output Vs. Pump
1 Hz, 450V, 1000 uS-1300 uS PW



This is an example of an “Application Specific” laser designed, assembled and tested by MegaWatt Lasers for a remote sensing application. We define Application Specific as prototypes, custom one-off designs, and small production runs. This particular example went from a customer’s requirements, through modeling and engineering to a fielded breadboard in less than six weeks. Although these particular breadboard lasers were pumped with flashlamps, future versions will be diode pumped, allowing increased repetition rates.