

Optics Communications, 104(1-3): 71-74

Cr⁴⁺:GSGG Saturable Absorber Q-switch for the Ruby Laser

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Abstract

Cr⁴⁺: GSGG has been utilized for the first time to provide a saturable absorber Q-switch for the ruby laser. Single output pulse operation (100 mJ and 27 ns duration) with efficiencies relative to the free-running ruby laser operation of 25–30% was routinely obtained.