



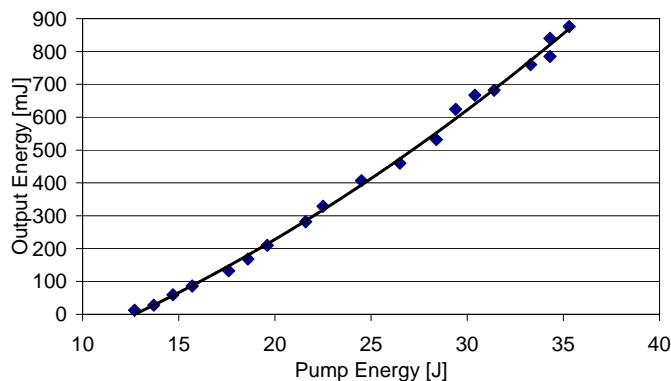
20 Watt 2.94 μ m SOLID-STATE RESONATOR



Compact, Room-Temperature Water-Cooled, Flashlamp-Pumped Er:YAG Resonator Assembly

MegaWatt Lasers is pleased to offer - off-the-shelf laser resonator assemblies. These resonators are intended for OEM's or R&D applications. Laser assemblies include: pump chamber, flashlamp, laser rod, trigger electronics, and resonator optics tailored for the specific application. Also available are resonator assemblies using other solid-state laser media, such as Ho:YAG, Er:Glass, Nd:YAG, Nd:Glass, Ruby, and Alexandrite. MegaWatt Lasers also offers custom resonators with average powers up to 60 W (2.1 μ m) and 200W @ (1.06 μ m) as well as turnkey systems.

R4X100 Resonator Output Vs. Pump
25 Hz, 350 ms

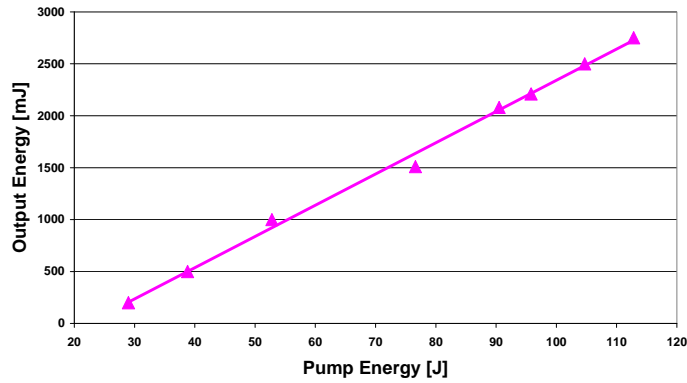


Specifications

Parameter	Nominal Value
Wavelength:	2.94 μ m
Pulse Energy:	800 mJ
Repetition Rate:	25 Hz
Pulse Width:	350 μ s
Average Power:	20 W
Laser Head Dim.:	5 X 10 X 24 cm
Coolant Temp.:	25°C



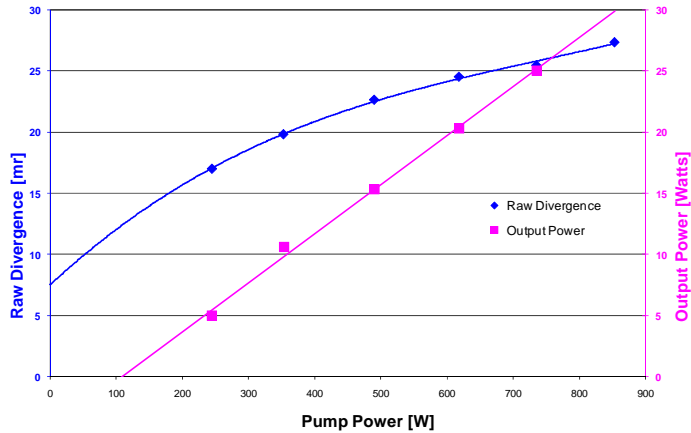
R4X100 Resonator



R4X100 Resonator

Er:YAG Rod (50% Er Doping)
M103 Flashlamp
25°C Coolant
8.0 l/min Flow
350 μ s
10 Hz
25 W

Divergence



Raw Divergence Vs. Pump

Er:YAG Rod (50% Er Doping)
M103 Flashlamp
25°C Coolant
8.0 l/min Flow
350 μ s
10 Hz

