

Nd: GdVO4 CRYSTALS

Nd:GdVO4 is an excellent laser crystal. This crystal is ideal laser host material for the DPSS (Diode pumped Solid State) micro/mini lasers as its good physical, optical and mechanical properties. It has higher slope efficiency than Nd:YAG and better thermal conductivity, higher power output than Nd:YVO4, so it is a good choice to use Nd:GdVO4 for high power output DPSS lasers.



Specification	
Crystal Structure	Tetragona
Space Group	I41/amd
Lattice Paramete	a=0.721nm, b=0.635nm
Lasing Wavelength	1062.9nm
Emission Cross Section [@1064nm]	7.6x10-19 cm2
Absorption Cross Section [@808nm]	4.9x10-19 cm2
Absorption Coefficient [@808nm]	74cm-1
Thermal Conductivity	11.7W / [mxK]
Density	5.47g/cm3
Nd Dopent Level [atomic]	0.1%, 0.2%, 0.3%, 0.5%, 0.7%, 1.0%