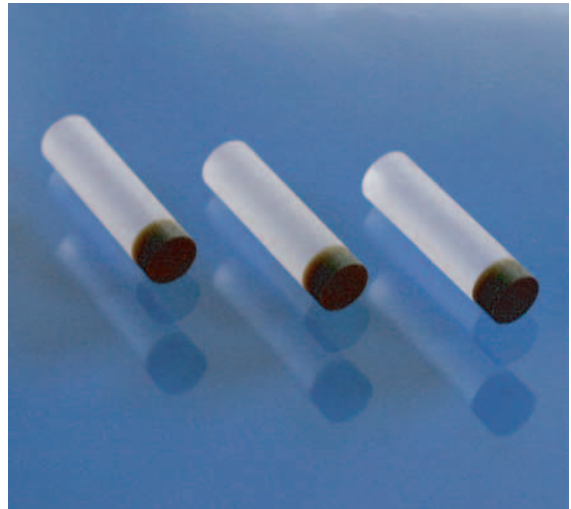


YAG:Nd/YAG:Cr

Diffusion bonded laser crystal Nd:YAG-Cr:YAG

- **For passively Q-switched Solid State Lasers, 1064nm**
- **Compact size**
- **Less system complexity**
- **Higher efficiency**
- **Improved beam quality**
- **Pulsed (typ. 1,7-2 ns)**
- **Up to 50 µJ**
- **Up to 15 kHz**



LASER CRYSTAL COMPOSITES

Part number	7YNC 00#
Wavelength	1064 nm
Pulse Energy	5 µJ @ 15kHz 350µJ@ 5kHz
Peak Power	>2.4 kW @ 15kHz
Max. Pulse Repetition Rate	5 kHz 15 kHz
Pulse Length (FWHM)	1.0 2.5 ns
Nd-concentration:	0.9% 1.2%
Initial transmission for YAG:Cr	50% 70%
Surface quality	Scratch/Dig: 10/5 per MIL-O-13830B
Flatness	1/10 lambda @633nm
Wavefront distortion	1/8 lambda
Parallelism	<10 arc sec
Angle tolerance	0.6°
Total length	5.5 10.0 mm
Thickness YAG:Cr	about 1.5mm
Diameter	3.0 mm (other sizes and rectangular formats on request)
HR coating @1064nm on front side (YAG:Nd)	R>99.5%
AR coating @808nm on front side (YAG:Nd)	R<5%
R coating @1064nm on rear side (YAG:Cr)	R=30 50%