

All substrates are 1" diameter and 0.25" thickness plano/plano blanks.

The damage threshold shall be  $> 20\text{J}/\text{cm}^2$  at 2micron wavelength. The laser is operated at 50 -200 Hz repetition rate. The minimum spot diameter for laser beam is 1.2 mm, and the minimum pulse width is 30ns.

The coating with highest damage threshold is required that may need high damage threshold coating technique such as Ion Beam Sputtering.

1. 40% Output coupler

S1: R 40% @ 2051 nm and T>99.5% @ 1940 nm.

"P" polarization at 0° incident angle, damage threshold  $> 20\text{J}/\text{cm}^2$ . The T>99.5% @ 1940 nm is priority and R 40%@ 2051nm can be tolerated at  $\pm 2\%$

S2: AR coating @ 2051 nm and 1940 nm.

Quantity: 10

2. 50% Output coupler

S1: R 50% @ 2051 nm and T>99.5% @ 1940 nm.

"P" polarization at 0° incident angle, damage threshold  $> 20\text{J}/\text{cm}^2$ . The T>99.5% @ 1940 nm is priority and R 50%@ 2051nm can be tolerated at  $\pm 2\%$

S2: AR coating @ 2051 nm and 1940 nm.

Quantity: 10

3. 60% Output coupler

S1: R 60% @ 2051 nm and T>99.5% @ 1940 nm.

"P" polarization at 0° incident angle, damage threshold  $> 20\text{J}/\text{cm}^2$ . The T>99.5% @ 1940 nm is priority and R 60%@ 2051nm can be tolerated at  $\pm 2\%$

S2: AR coating @ 2051 nm and 1940 nm.

Quantity: 10