

# PMC-10 Measurement, 01/25/16, using the integrating sphere while sweeping NPRO.

| Parameter            | Measurement |
|----------------------|-------------|
| Input Power (mV)     | 117         |
| Output Power (mV)    | 95.6        |
| Reflected Power (mV) | 4.4         |
| PZT HR Leakage (mV)  | 0.5         |
| HR Leakage (mV)      | 0.44        |
| Linewidth (MHz)      | 1.23        |

| Parameter                     | Calculation based on measurement |
|-------------------------------|----------------------------------|
| Transmission M1 (%)           | 2.35                             |
| Transmission M2 (%)           | 2.35                             |
| Transmission M3 (ppm)         | 108                              |
| Transmission M4 (ppm)         | 123                              |
| Average loss per mirror (ppm) | 1370                             |
| Visibility                    | 0.962                            |
| Mode-matching                 | 0.974                            |
| Cavity transmission           | 0.817                            |

# PMC-08 Measurement, 01/26/16, using the integrating sphere while sweeping NPRO.

| Parameter            | Measurement |
|----------------------|-------------|
| Input Power (mV)     | 235         |
| Output Power (mV)    | 214         |
| Reflected Power (mV) | 18          |
| PZT HR Leakage (mV)  | 0.55        |
| HR Leakage (mV)      | 0.3         |
| Linewidth (MHz)      | 1.14        |

| Parameter                     | Calculation based on measurement |
|-------------------------------|----------------------------------|
| Transmission M1 (%)           | 2.37                             |
| Transmission M2 (%)           | 2.37                             |
| Transmission M3 (ppm)         | 33.2                             |
| Transmission M4 (ppm)         | 60.9                             |
| Average loss per mirror (ppm) | 80.9                             |
| Visibility                    | 0.923                            |
| Mode-matching                 | 0.923                            |
| Cavity transmission           | 0.911                            |