

Microring resonator chip



We offer our standard design of ring resonators designed for ultralow loss operation in the telecom C-band. These small optical cavities are excellent for optical filtering or nonlinear generation of frequency lines.

The key features of the chip are:

- Two ultralow loss microring resonator coupled to a bus waveguide via point coupling.
- Small form factor chip, with dimension 3x5mm².
- Fully etched facets for easy coupling with lensed fibers with MFD 2.5μm.
- Alignment loops at each optical facet for alignment with fiber arrays with 250μm pitch.



	Guaranteed	Typical
Intrinsic quality factor	>1e6	>6e6
Free spectral range	100 ± 2 GHz	100.0 ± 0.5 GHz
Group velocity dispersion	-80 ± 20 ps ² /km @1550nm	-84 ± 2 ps ² /km @1550nm
Coupling loss to a lensed fiber with mode field diameter 2.5μm	<5dB per facet	<2dB per facet