

## (3.4 to 4.2 GHz) Radio Over Fiber



### Features

- Bandwidth 3.4 to 4.2 GHz
- WDM & CWDM Compatible
- High Dynamic Range
- Immune to EMI

### Optical Transmitter And Receiver

The Fiber Optic Transmitter CCSL-Tx-C-2000-FC and Fiber Optic Receiver CCSL-Rx-C-FC are designed for electrical-to-optical (E/O) and Optical to Electrical (O/E) conversion of broadband RF signals over a frequency 3.4 to 4.2GHz

Using both these modules, a broadband linear optical link, capable of supporting the transmission of RF signals over single mode optical fiber could be achieved for many applications such as RF transmission, Optical delay line, and Antenna Remoting.

| Specifications              |                             |
|-----------------------------|-----------------------------|
| Frequency                   | 3.4 to 4.2 GHz              |
| Gain                        | +0 dB (typical) or better   |
| Flatness(max)               | $\pm 1$ dB (3.4 to 4.2 GHz) |
| Dynamic range               | -10 to -60dBm               |
| Max RF input power handling | 0 dBm or better             |
| Input P1                    | -10 dbm                     |
| Input IP-3(min)             | +15dBm                      |
| Noise figure(max)           | 25dB or better              |
| RF input & output interface | 50 ohm, SMA(F)              |
| Operating wave length       | 1550                        |
| Modulation type             | Direct                      |
| Optical output power        | $3 \pm 2$ dBm               |
| Back Reflection             | 35dB                        |
| Optical interface           | FC/APC                      |

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