

DCL – DISPERSION COMPENSATOR *LIGHT*

The ClearSpectrum™ - DCL is a totally passive chromatic dispersion compensator provided in the smallest form factor of the industry. This unit can be integrated within compact transponder environments.



This low insertion loss dispersion compensator increases the reach of 100G direct detection transmission such as in 4 X 28 Gb/s CFP solutions. Spliced to a 3-port optical circulator, all 50 GHz spaced C-band channels are compensated simultaneously with ultra-low latency.

Based on TeraXion's RoHS compliant and patented multi-channel fiber bragg grating technology, this light compensator enhances the optical system performances, valuing its use in high-speed networks.

Features

- Small form factor
- Totally passive
- Ultra-low latency
- Low insertion loss
- Full C-band
- 50 GHz channel grid
- Compensation up to 40 km
- RoHS compliant

Applications

- Router and datacenter interconnect
- CFP module reach extender

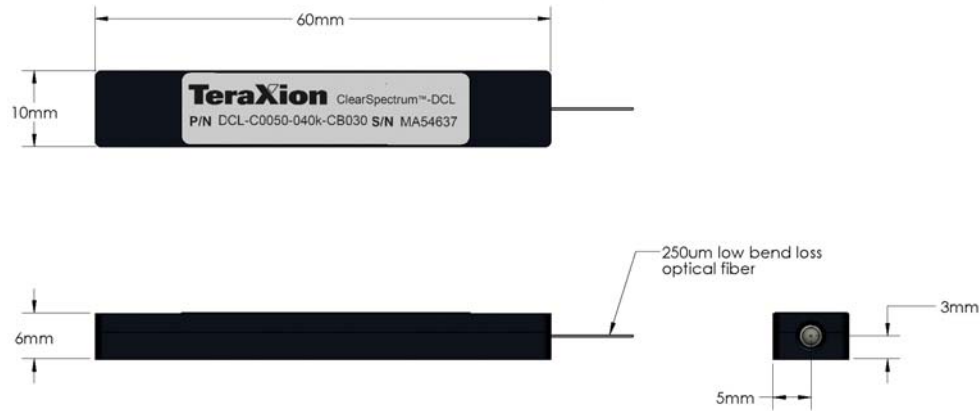
Parameters ⁽¹⁾	Specifications	Units
SMF-28 Dispersion Compensation Level	≤ 40	km
Channel Spacing	50	GHz
Operation Bandwidth	≥ ITU ± 14	GHz
Insertion Loss ⁽²⁾	≤ 2.0 (w/o circ.), ≤ 3.0 (w/ circ.)	dB
Latency	10	ns
Operating Temperature	-5 to 80	°C
Storage Temperature	-40 to 85	°C

(1): Specifications can be customized

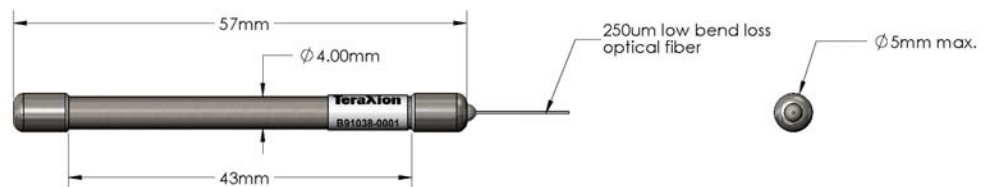
(2): Option—Spliced circulator

Dimensions

Module version



OEM version



Ordering information

For orders, questions, specific requirements or to learn more about TeraXion's products, contact us at

info@teraxion.com