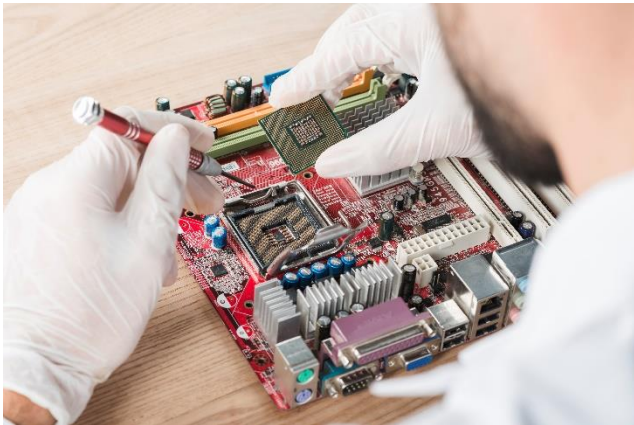


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OPTICAL FREQUENCY COMB GENERATOR BASED ON CHIRPING OF MACH ZEHNDER MODULATORS



▶ MORE INFORMATION

MEGA-TREND

- **Chemicals and Materials**

TECHNOLOGY READINESS LEVEL (TRL)

- **TRL 3**

PATENT/ GRANTED NUMBER

- **PI 2018703406**

▶ TECHNOLOGY OVERVIEW

The present invention relates generally to a system for optical frequency comb generator (OFCG) setup based on two-cascaded Mach–Zehnder Modulators (MZMs) configuration. Accordingly, the system includes: a) at least one CW laser diode, b) at least one time delayer, c) at least one sinusoidal wave oscillator of period T , and d) at least two Mach–Zehnder Modulators (MZMs); wherein first MZM is driven directly by the sinusoidal wave oscillator with frequency f_r , while second MZM is driven by same

sinusoidal wave after being delayed at time delay δ , by the time delayer at condition where the time delay δ is at $0 < \delta < 0.5 T$.

CONTACT US!

Dr. Lee Ching Shya

UMCIE Business Officer

Email: leecs@um.edu.my

Phone: +603 – 7967 7351 / 7352