

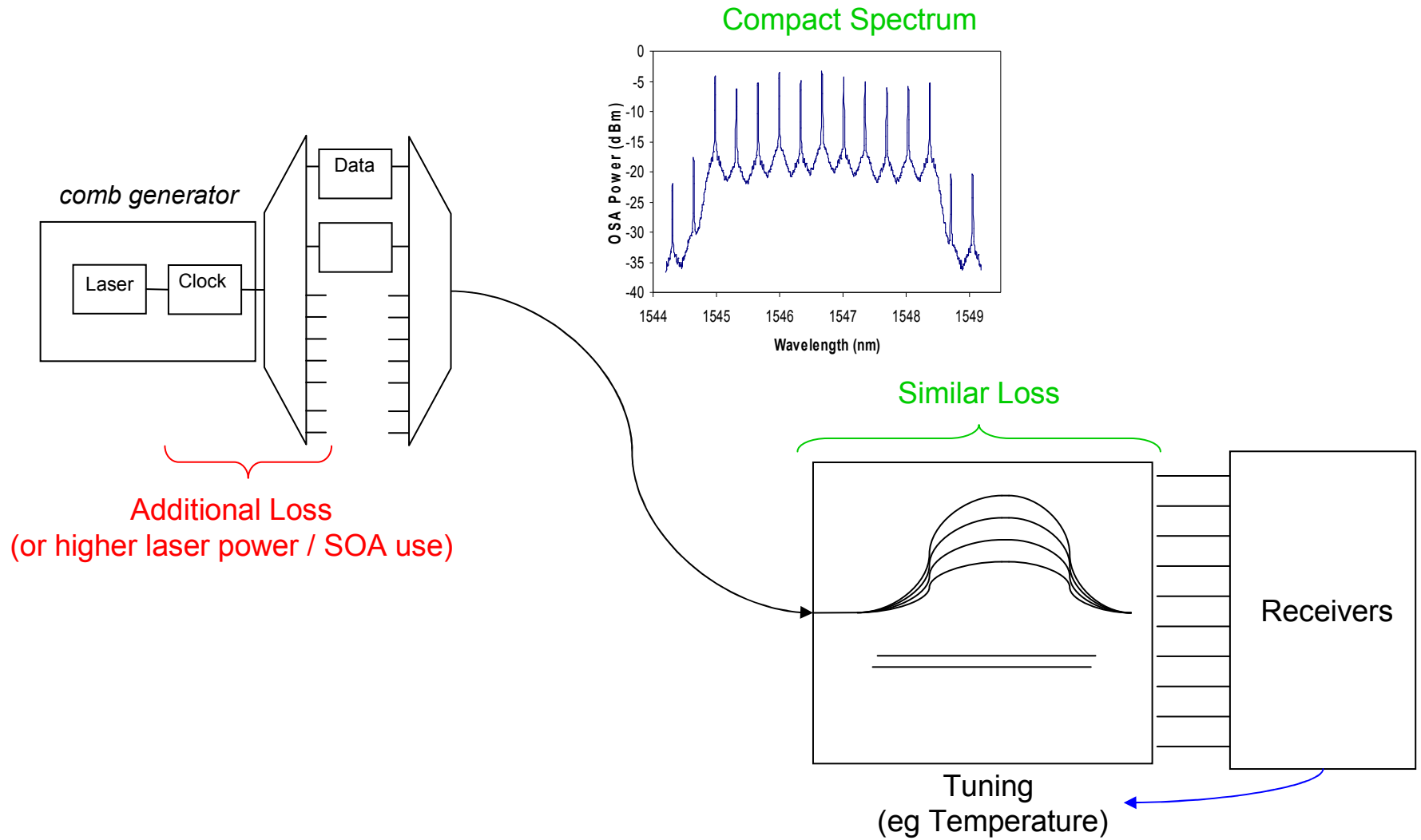
Comb based WDM for 100 GE Applications:

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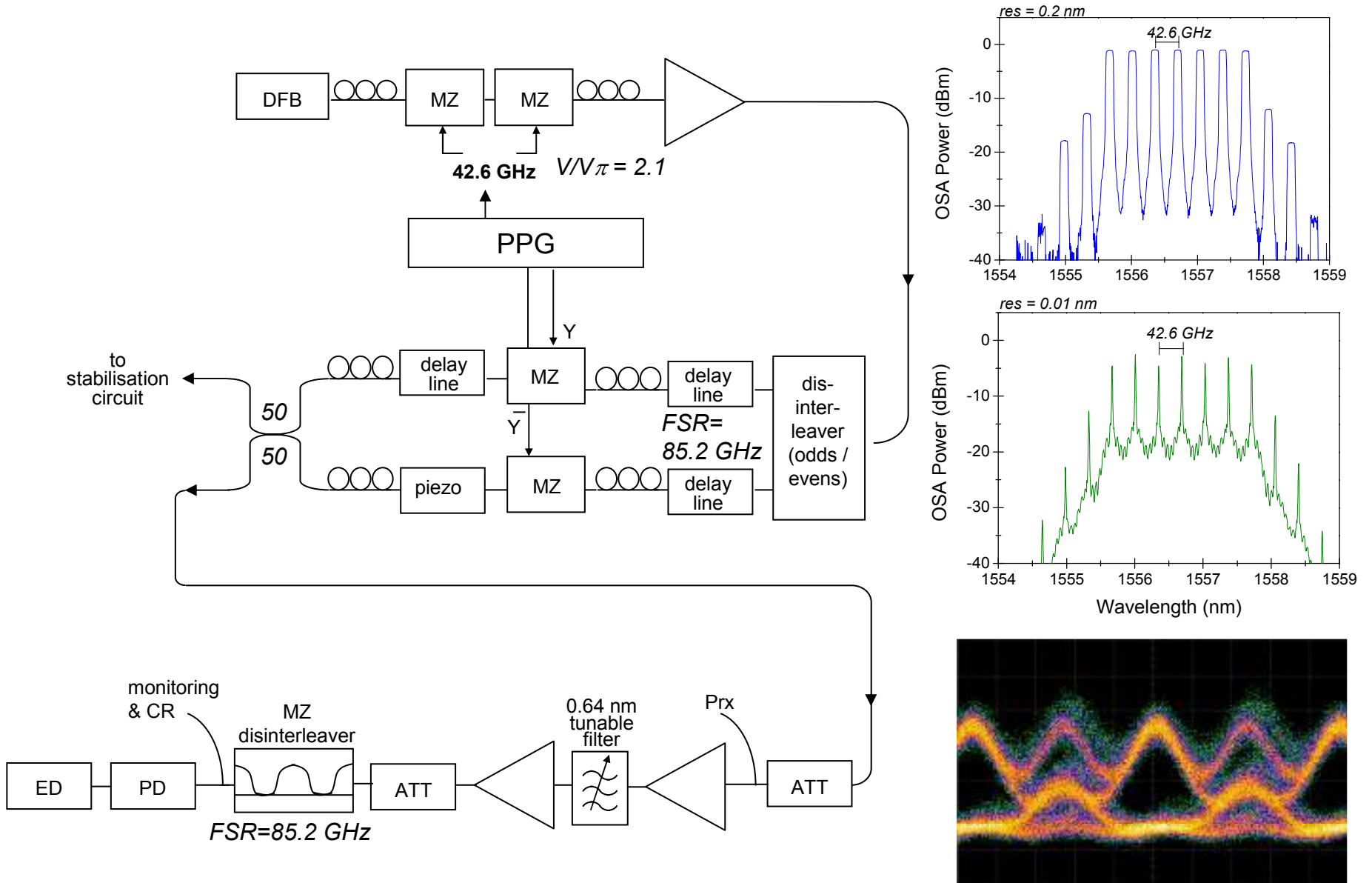
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Frequency Comb System



Experimental verification (7 x 42.6 Gbit/s)



Feasibility	SMF	10km 1310nm	40km 1310nm	10km 1550nm	40km 1550nm
Technical	10x10 Comb+PIC	Yes	Yes (need SOA Rx)	Yes	Yes (may need SOA Rx)
	4x25/5x20 Comb+PIC	Yes	Yes (need SOA Rx)	Yes	Yes (need SOA Rx)
Economic	10x10 Comb+PIC	Yes	Yes (need SOA Rx)	Yes	Yes
	4x25/5x20 Comb+PIC	Yes	Yes (need SOA Rx)	Yes	No (need Rx SOA & DC)