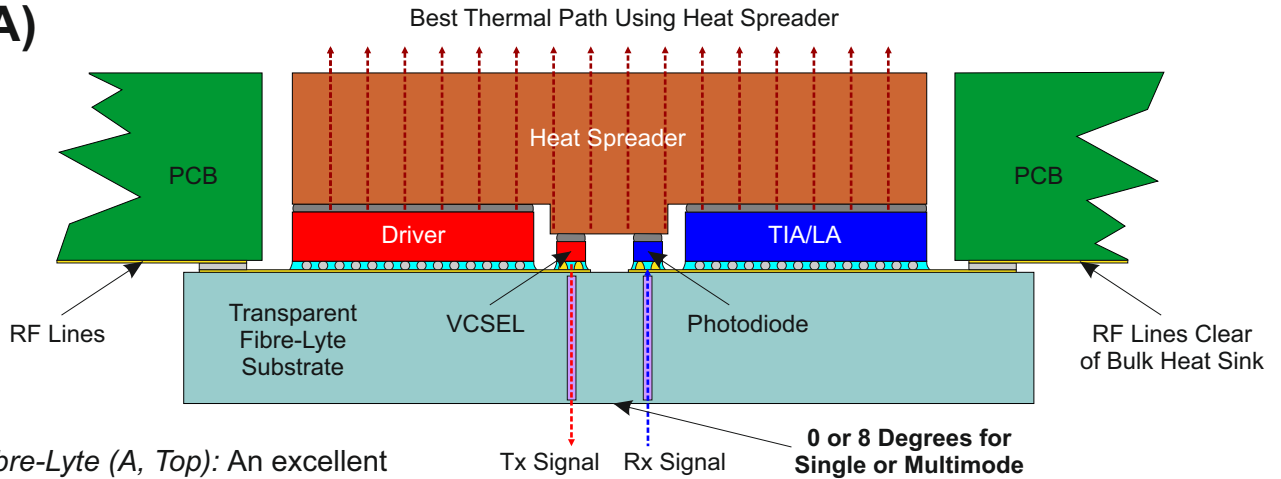


Fibre-Lyte Thermal Management

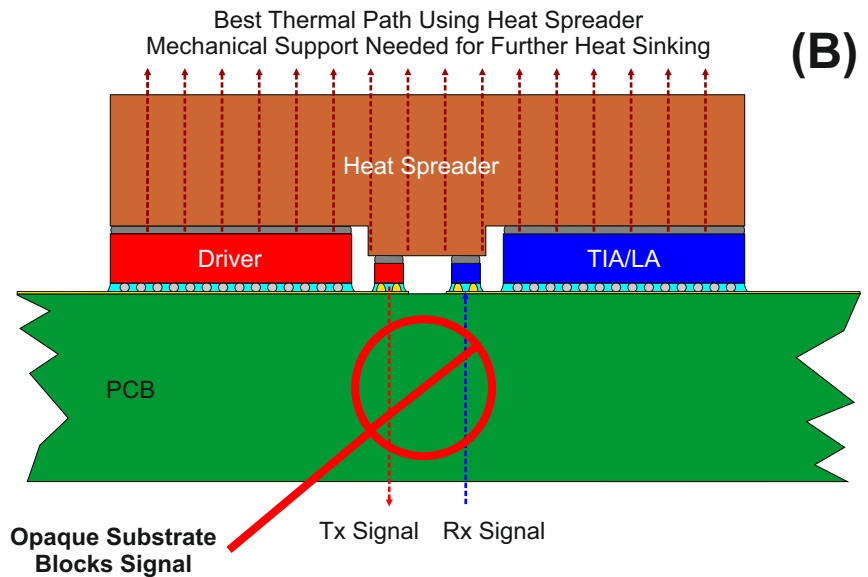
Fibre-Lyte is designed to reduce the complexity of optical engine design. This example is for a 2xn design where 2x12 is typical. Fibre-Lyte offers optimal thermal management without compromising signal integrity (SI) or optical coupling. It can be reflow soldered along with every other component.

(A)

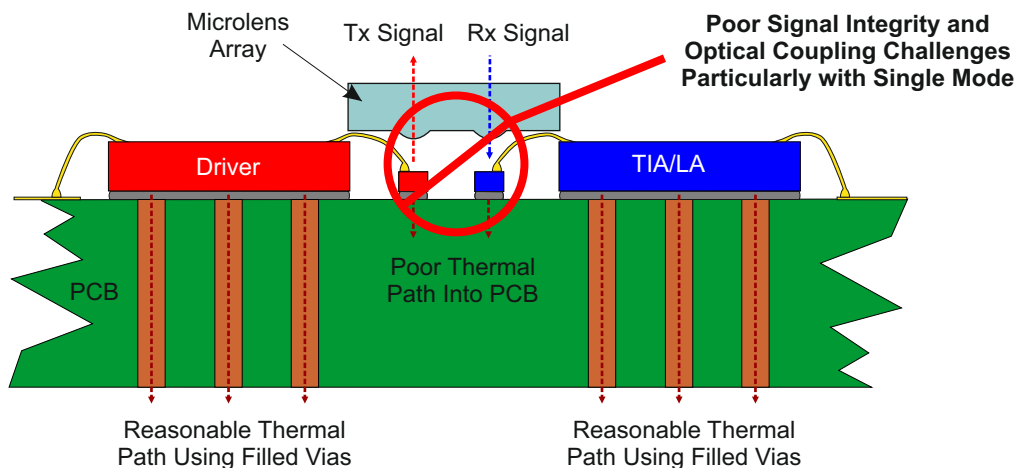


- *Fibre-Lyte (A, Top):* An excellent thermal path, passive alignment of optics and flip-chip assembly to improve signal integrity. PCB supports additional heat sinking.
- *Opaque Substrate (B, Middle):* An excellent thermal path with good SI. However the opaque substrate makes optical coupling impractical if not impossible.
- *Wire Bonding (C, Bottom):* Wire bonding gives SI problems particularly at 25G per channel. Thermal management is reasonable but optical coupling is challenging from a mechanical and alignment point of view particularly for single mode.

(B)



(C)



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