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# Product Transition Document

## Application Note 1150

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### HFCT-5205

#### Introduction

This report details the changes being introduced to the HFCT-5205B/D product.

#### Summary

There are three changes being introduced to the HFCT-5205B/D, as follows;

- 1) The HFCT-5205B/D laser chip will be changed from Bulk Fabry Perot to S-MQW Fabry Perot.
- 2) The HFCT-5205B/D will use the same internal printed circuit board as the HFCT-5215B/D.
- 3) The product package height will change to a Mezzazine package height.

#### Results

The S-MQW laser has a higher slope efficiency than the Bulk laser currently used. However, eye-safety is still maintained as the HFCT-5215B/D internal printed circuit board includes an over current protection circuit limiting drive current to the laser at low temperatures.

This current protection circuit has been proven to maintain eye-safety in the HFCT-5215B/D which uses a higher slope efficiency S-MQW laser than that used in the HFCT-5205B/D product.

The overall package height, including standoffs, will change from a maximum of 11.20 mm to 10.18 mm.

#### Conclusion

The build changes being introduced to the HFCT-5205B/D represent negligible performance differences compared to the existing build standard.



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