Wave Photonics now provides packaging templates for the PHIX Characterization Package

For more information, contact info@wavephotonics.com

Wave Photonics now provides easy-to-use photonic chip packaging templates for the PHIX Characterization Package solution. These templates are available for the CORNERSTONE silicon-on-insulator (SOI) 220 nm passive and active fabrication processes.

The PHIX Characterization Package is an open architecture prototyping package for photonic integrated circuits (PICs)[1] that allows users to characterise their chips or perform system integration tests of an optoelectronic module[1].

Wave Photonics' packaging templates for the PHIX Characterization Package solution have been designed using Wave Photonics' PDK for the CORNERSTONE SOI 220 nm fabrication processes – these templates use Wave Photonics' components optimised for the PHIX fibre arrays, which can improve coupling performance and reduce coupling loss.

The Wave Photonics PDK packaging templates can be used for packaging a 11.47x4.9 mm chip received from a CORNERSTONE SOI 220 nm MPW run, using up to two 32-channel fibre arrays, one on the east side and one on the west side of the chip. There are templates with either regular or wideband grating couplers available. The wideband grating couplers maintain good coupling over a range of 100 nm, either in the C-band (1500 – 1600 nm) or O-band (1260 - 1360 nm) in TE mode - this makes it useful for telecommunications and data communications applications using wavelength-division multiplexing. Furthermore, there are 42 DC pads on both the north and south sides of the chip, 84 DC pads in total, giving flexibility for adding thermo-optic and electro-optic elements to your chip.

Wave Photonics also offers free-to-use packaging templates for the open-source PDK for the CORNERSTONE foundry[2].

To access Wave Photonics' packaging templates for PHIX's Characterization Package solution, visit our PDK access point: https://pdk.wavephotonics.com

For more information about the PHIX Characterization Package, please see the PHIX website: https://www.phix.com/our-offering/prototype-package/phix-characterization-package/

154 Cambridge Science Park,
Milton Road,
Cambridge,
CB4 0GN, UK
info@wavephotonics.com
www.wavephotonics.com

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[1] PHIX Characterization Package
[2] These free templates use components from the open-source CORNERSTONE PDK which was not designed for PHIX fibres and may result in poor coupling.