# CLEO-II Silicon Vertex Detector

| | Layer 1 | Layer 2 | Layer 3 |
|---|---|---|---|
| Radius to inner surface | 23.5 mm | 32.5 mm | 46.9,48.1 mm |
| Total Length | 65.580 mm | 81.270 mm | 2$\times$65.580 mm |
| Total Width | 22.568 mm | 30.128 mm | 2$\times$22.568 mm |
| Active Length | 59.535 mm | 76.356 mm | 2$\times$59.535 mm |
| Active Width | 21.168 mm | 28.980 mm | 2$\times$21.168 mm |
| cos $\theta$ coverage | 0.92 | 0.92 | 0.92 |
| Thickness | 300 $\mu$m | 300 $\mu$m | 300 $\mu$m |
| Number of DSSD detectors | 16 | 16 | 64 |
| Number of CAMEX chips | 96 | 128 | 96 (*+96 JAMEX*) |
| Readout Bond Pad Pitch | 97 $\mu$m | 97 $\mu$m | 97 $\mu$m |
| Number of Active Channels | 6048 | 8064 | 12096 |
| **Detector Outer Side** ($r-\phi$ , $\sigma$=12 $\mu$m) | | | |
| Implant | p-type | | |
| Implant Width | 10 $\mu$m | 10 $\mu$m | 10 $\mu$m |
| Implant Pitch | 28.00 $\mu$m | 28.5 $\mu$m | 28.00 $\mu$m |
| Number of Implants | 753 | 1005 | 3012 |
| Readout Width | 5 $\mu$m | 5 $\mu$m | 5 $\mu$m |
| Readout Pitch | 112 $\mu$m | 114 $\mu$m | 112 $\mu$m |
| Readout Strips | 189 | 252 | 378 |
| **Detector Inner Side** ($r-z$, $\sigma$=30 $\mu$m) | | | |
| Implant | n-type | | |
| Implant Width | 20 $\mu$m | 20 $\mu$m | 20 $\mu$m |
| Implant Pitch = Readout Pitch | 105 $\mu$m | 101 $\mu$m | 105 $\mu$m |
| Approximate Barrier Width | 69 $\mu$m | 65 $\mu$m | 69 $\mu$m |
| Readout Width | 5 $\mu$m | 5 $\mu$m | 5 $\mu$m |
| Number of Implants | 567 | 756 | 1134 |
| Readout Strips | 189 | 252 | 378 |