# 5 mm

100 mm x 5 mm x 2mm BC422 + S13360-3050PE

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| | 55 V | -10 mV | | 145 ps (Nik) | 73 ps |
| | 55 V | -20 mV | | 143 ps (Nik) | 72 ps |
| 581x | 55 V | -30 mV | 99.4 % ± 0.1 % | 120 ps | 60 ps |
| | 55 V | -40 mV | | 125 ps | 63 ps |
| | 55 V | -50 mV | | 131 ps | 66 ps |

100 mm x 5 mm x 2mm BC422 + S12572-025P

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5820 | 69 V | -10 mV | 99.8 % ± 0.1 % | 197 ps | 99 ps |
| 5819 | 69 V | -20 mV | 98.8 % ± 0.1 % | 197 ps | 99 ps |
| 5818 | 69 V | -30 mV | 92.0 % ± 0.1 % | 209 ps | 105 ps |
| | 69 V | -40 mV | | 223 ps | 112 ps |

100 mm x 5 mm x 2mm BC422 + S13360-3025PE

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5817 | 57 V | -10 mV | 99.5 % ± 0.1 % | 187 ps | 94 ps |
| 5816 | 57 V | -20 mV | 92.1 % ± 0.1 % | 205 ps | 103 ps |
| 5813 | 57 V | -30 mV | 61.7 % ± 0.1 % | 215 ps | 108 ps |
| | 57 V | -40 mV | | 196 ps | 98 ps |

100 mm x 5 mm x 2mm Al. Coated EJ204 + S12572-025P (171 ps / 86 ps for not coated)

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5814 | 69 V | -10 mV | 99.6 % ± 0.1 % | 230 ps | 115 ps |
| 5815 | 69 V | -20 mV | 99.2 % ± 0.1 % | 227 ps | 114 ps |
| 5813 | 69 V | -30 mV | 96.2 % ± 0.1 % | 232 ps | 116 ps |
| | 69 V | -40 mV | | 294 ps | 147 ps |

100 mm x 5 mm x 2mm EJ204 + AdvanSiD (188 ps / 94 ps in Dec.2015)

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| | 30 V | -100 mV | | 135 ps | 68 |

- All measurements are done with 42-46 kHz in 2x2 mm²; CFD delay = 2 ns

# 8 mm

100 mm x 8 mm x 2mm BC422 + S13360-3050PE

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| | 110 V | -10 mV | 99.5 % ± 0.1 % | | |
| 5856 | 110 V | -20 mV | 99.9 % ± 0.1 % | 116 ps | 58 ps |
| 5849 | 110 V | -30 mV | 99.9 % ± 0.1 % | 106 ps | 53 ps |
| 5848 | 110 V | -40 mV | 99.9 % ± 0.1 % | 106 ps | 53 ps |
| | 110 V | -50 mV | 99.86 % ± 0.1 % | | |

100 mm x 8 mm x 2mm BC422 + S12572-025P

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5850 | 138 V | -10 mV | 99.9 % ± 0.1 % | 148 ps | 74 ps |
| 5851 | 138 V | -20 mV | 99.9 % ± 0.1 % | 150 ps | 75 ps |
| 5854 | 138 V | -30 mV | 98.5 % ± 0.1 % | 154 ps | 77 ps |
| 5855 | 138 V | -40 mV | 90.3 % ± 0.1 % | 163 ps | 82 ps |

100 mm x 8 mm x 2mm BC422 + S13360-3025PE

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5857 | 114 V | -10 mV | 99.9 % ± 0.1 % | 156 ps | 78 ps |
| 5858 | 114 V | -20 mV | 96.9 % ± 0.1 % | 162 ps | 81 ps |
| 5859 | 114 V | -30 mV | 80.8 % ± 0.1 % | 179 ps | 90 ps |

RUN # 5860

| | | |
|---|---|---|
| 100 mm x 8 mm x 2mm BC422 + S12572-025P | CFD_th = -20 mV | $\sigma_{T(L-R)}$ = 176 ps |
| 100 mm x 8 mm x 2mm BC422 + S13360-3050PE | CFD_th = -30 mV | $\sigma_{T(L-R)}$ = 114 ps |
| 100 mm x 8 mm x 2mm BC422 + S13360-3025PE | CFD_th = -10 mV | $\sigma_{T(L-R)}$ = 155 ps |

- All measurements are done with 42-46 kHz in 2x2 mm²; CFD delay = 2 ns

# 12 mm

100 mm x 12 mm x 2mm BC422 + S13360-3050PE

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5875; 5876 | 165 V | -10 mV | 99.7 % ± 0.1 % | 120 ps | 60 ps |
| 5877 | 165 V | -20 mV | 99.8 % ± 0.1 % | 119 ps | 60 ps |
| 5878 | 165 V | -30 mV | 99.8 % ± 0.1 % | 117 ps | 59 ps |
| 5879 | 165 V | -40 mV | 99.7 % ± 0.1 % | 115 ps | 58 ps |
| 5880 | 165 V | -50 mV | 99.2 % ± 0.1 % | 116 ps | 58 ps |
| 5881 | 165 V | -60 mV | 97.2 % ± 0.1 % | 115 ps | 58 ps |

100 mm x 12 mm x 2mm BC422 + S12572-025P

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5886 | 207 V | -5 mV | 99.9 % ± 0.1 % | 147 ps | 74 ps |
| 5882 | 207 V | -10 mV | 99.9 % ± 0.1 % | 149 ps | 75 ps |
| 5883 | 207 V | -20 mV | 99.8 % ± 0.1 % | 148 ps | 74 ps |
| 5884 | 207 V | -30 mV | 97.5 % ± 0.1 % | 156 ps | 78 ps |
| 5885 | 207 V | -40 mV | 85.4 % ± 0.1 % | 168 ps | 84 ps |

100 mm x 12 mm x 2mm BC422 + S13360-3025PE

| Run # | HV | CFD_th | Efficiency | σ_T(L-R) | σ_T([L+R]/2) |
|---|---|---|---|---|---|
| 5891 | 171 V | -5 mV | 99.8 % ± 0.1 % | 176 ps | 88 ps |
| 5887 | 171 V | -10 mV | 99.8 % ± 0.1 % | 173 ps | 87 ps |
| 5888; 5889 | 171 V | -20 mV | 98.7 % ± 0.1 % | 176 ps | 88 ps |
| 5890 | 171 V | -30 mV | 91.0 % ± 0.1 % | 184 ps | 92 ps |

- All measurements are done with 42-46 kHz in 2x2 mm²; CFD delay = 2 ns