3 x 5 mm BC422 Tests

Single (100 mm x 5 mm x 2 mm) BC422 + S13360-3050PE

Run#	HV	CFD_th	Efficiency	G _T(L-R)	σ _T([L+R]/2)
6031	<mark>55 V</mark>	-20 mV	99.5 % ± 0.1 %	<mark>156 ps</mark>	<mark>78 ps</mark>

Al. Coated (100 mm x 5 mm x 2 mm) BC422 + S13360-3050PE

Run#	HV	CFD_th	Efficiency	$\sigma_T(L-R)$	σ _T([L+R]/2)
Normalized*	<mark>55 V</mark>	-20 mV		210 ps	105 ps

^{*}Normalized to the factor we got for EJ204 (171 ps) and Al. coated EJ204 (230 ps)

3 x (100 mm x 5 mm x 2mm) BC422 + S13360-3050PE with 12 micron air gap

Run#	HV	CFD_th	Efficiency	σ _T(L-R)	σ _T([L+R]/2)
6057	55 V	-5 mV	99.5 % ± 0.1 %	185 ps	93 ps
6058	55 V	-10 mV	99.5 % ± 0.1 %	184 ps	<mark>92 ps</mark>
6059	55 V	-15 mV	99.3 % ± 0.1 %	182 ps	91 ps
6060	55 V	-20 mV	98.8 % ± 0.1 %	176 ps	88 ps
6061	55 V	-25 mV	97.7 % ± 0.1 %	174 ps	87 ps
6062	55 V	-30 mV	95.1 % ± 0.1 %	178 ps	89 ps
6065	55 V	-35 mV	90.4 % ± 0.1 %	173 ps	87 ps
6064	55 V	-40 mV	82.5 % ± 0.1 %	179 ps	90 ps

3 x (100 mm x 5 mm x 2mm) BC422 + S13360-3050PE with 6 micron air gap + 6 micron aluminized maylar

Run#	HV	CFD_th	Efficiency	G _T(L-R)	σ _T([L+R]/2)
6118	55 V	-5 mV	98.9 % ± 0.1 %	165 ps	83 ps
6124	55 V	-10 mV	98.8 % ± 0.1 %	156 ps	78 ps
6120	55 V	-15 mV	$98.8 \% \pm 0.1 \%$	<mark>156 ps</mark>	<mark>78 ps</mark>
6121	55 V	-20 mV	98.6 % ± 0.1 %	152 ps	76 ps
6122	55 V	-25 mV	98.3 % ± 0.1 %	151 ps	76 ps
6123	55 V	-30 mV	97.1 % ± 0.1 %	151 ps	76 ps
6128	56 V	-5 mV	$98.7 \% \pm 0.1 \%$	154 ps	77 ps
6125	56 V	-10 mV	98.7 % ± 0.1 %	148 ps	74 ps
6126	<mark>56 V</mark>	-15 mV	$99.0 \% \pm 0.1 \%$	<mark>146 ps</mark>	<mark>73 ps</mark>
6127	56 V	-20 mV	98.8 % ± 0.1 %	152 ps	76 ps

• All measurements are done with 46-47 kHz in $2x2 \text{ mm}^2$; CFD delay = 2 ns