

# 7x Single vs Parallel Divider – quick update

	Single Divider		Parallel Divider	
	MOhm	V	MOhm	V
Drift - G0_UP	1.07	742	1.05	713
Delta G0	0.549	380	0.593	402
G0_DW - G1_UP	1.07	742	1.05	713
Delta G1	0.499	346	0.566	384
G1_DW - G2_UP	1.07	742	1.05	713
Delta G2	0.442	306	0.535	363
G2_DW - RDO	1.07	742	1.05	713
Tot	5.77	4000	5.894	4000

Parallel Divider has an overall slightly larger resistance:

5.89 vs 5.77 MOhm

but the resistors ratios of Delta GEM/Drift Gap are

0.51-0.56 vs 0.41-0.51

(original divider: 0.44 – 0.55)

and therefore has larger overall gain (at given HV) relative to single divider

→ **This explains the larger currents of parallel divider under Xray irradiation**