Layout preferences concerning matching in a fully differential $\Delta\Sigma$ modulator design

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The publisher regrets that incorrect data was printed from Table 3 in “Layout Preferences Concerning Matching in a Fully Differential $\Delta\Sigma$ Modulator Design” by Hakan Binici

and Juha Kostamovaara, which published in *Analog Integrated Circuits and Signal Processing* 50:2, pp. 95–103. The corrected Table 3 is shown below.

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Table 3 Measured modulator performance for design B

	Normal operation, normal current	Normal operation, reduced current	Increased sampling frequency	Increased oversampling ratio
Sampling frequency	32 kHz	32 kHz	250 kHz	192 kHz
Oversampling ratio	48	48	48	288
Signal bandwidth	330 Hz	330 Hz	2.5 kHz	330 Hz
Supply voltage	2.8 V (± 1.4 V)	2.8 V (± 1.4 V)	2.8 V (± 1.4 V)	2.8 V (± 1.4 V)
Minimum supply voltage	2.2 V (± 1.1 V)	2.2 V (± 1.1 V)	2.6 V (± 1.3 V)	2.6 V (± 1.3 V)
Reference voltage	1.0 V	1.0 V	1.0 V	1.0 V
Input CM voltage	−0.5 V	−0.5 V	−0.5 V	−0.5 V
Peak SNR/SNDR	74/71 dB	70/68 dB	65/62 dB	78/76.5 dB
Max./Min. input levels	−2/−73 dB	−2/−73 dB	−8/−69 dB	−10/−88 dB
Dynamic range	71 dB	71 dB	61 dB	78 dB
Resolution	12 bits	11.5 bits	10 bits	13 bits
PSRR	72 dB (@80 Hz)	70 dB (@80 Hz)	60 dB (@600 Hz)	63 dB (@80 Hz)
CMRR	85 dB	85 dB	70 dB	80 dB
Current consumption	22 μ A	17.5 μ A	47.5 μ A	47.5 μ A
Power dissipation	53 μ W (@2.4 V_{supl})	41 μ W (@2.4 V_{supl})	133 μ W (@2.8 V_{supl})	133 μ W (@2.8 V_{supl})
Technology	0.6 μ m, double poly, triple metal CMOS			
Active/Total Chip Area	1.4/4 mm ²			