Table 2: Comparison of various approximations of the log-determinant $\hat{\ell}_n$ with the exact computation ℓ_n obtained in 64-bit floating-point precision (first row).						
Values represent average percentage relative errors over five trained networks, with standard deviations in parentheses. Bold values indicate the closest approximation, with the next-best underlined.						
Quantity	Model	Configuration	ResNet9	ResNet9	ResNet18	MobileNet
	Dataset Subsample Size		CIFAR-10 $n = 1000$	CIFAR-10 $n = 2500$	CIFAR-10 $n = 1000$	$\begin{array}{c} \text{MNIST} \\ n = 2500 \end{array}$
ℓ_n	Direct Computation (64-bit)	(Reference)	76538 (203)	181377 (649)	65630 (842)	-183962 (7869)
Relative Error $\frac{ \hat{\ell}_n - \ell_n }{\ell_n}$	Direct Computation (16-bit) Direct Computation (32-bit)		$\frac{12.41\% (0.12)}{3.67\% (0.06)}$	$17.05\% (0.13) \underline{6.77\%} (0.08)$	$\frac{14.00\% (0.24)}{5.25\% (0.09)}$	66.97% (2.13) 14.27 % (0.95)
	Block Diagonal SLQ Pseudo NTK		76.49% (0.12) 81.51% (0.16) 118.35% (0.10)	75.15% (0.16) 80.89% (0.24) 122.35% (0.27)	92.76% (1.55) 101.03% (1.64) 122.95% (0.25)	112.55% (1.22) 84.52% (1.51) 75.32% (1.04)
	FLODANCE FLODANCE FLODANCE	$n_0 = 1, n_s = 50$ $n_0 = 1, n_s = 100$ $n_0 = 300, n_s = 500$	7.75% (0.77) 5.61% (0.32) 1.34 % (0.11)	11.27% (1.10) 8.54% (0.63) 1.37 % (0.14)	12.19% (0.30) 8.09% (0.68) 2.9 % (0.81)	36.41% (2.53) 35.51% (1.46) 23.19% (1.76)