

Table 17-9. Examples of UBRRn Settings for Commonly Used Oscillator Frequencies

Baud Rate (bps)	$f_{osc} = 1.0000 \text{ MHz}$				$f_{osc} = 1.8432 \text{ MHz}$				$f_{osc} = 2.0000 \text{ MHz}$			
	U2Xn = 0		U2Xn = 1		U2Xn = 0		U2Xn = 1		U2Xn = 0		U2Xn = 1	
	UBRRn	Error	UBRRn	Error	UBRRn	Error	UBRRn	Error	UBRRn	Error	UBRRn	Error
2400	25	0.2%	51	0.2%	47	0.0%	95	0.0%	51	0.2%	103	0.2%
4800	12	0.2%	25	0.2%	23	0.0%	47	0.0%	25	0.2%	51	0.2%
9600	6	-7.0%	12	0.2%	11	0.0%	23	0.0%	12	0.2%	25	0.2%
14.4k	3	8.5%	8	-3.5%	7	0.0%	15	0.0%	8	-3.5%	16	2.1%
19.2k	2	8.5%	6	-7.0%	5	0.0%	11	0.0%	6	-7.0%	12	0.2%
28.8k	1	8.5%	3	8.5%	3	0.0%	7	0.0%	3	8.5%	8	-3.5%
38.4k	1	-18.6%	2	8.5%	2	0.0%	5	0.0%	2	8.5%	6	-7.0%
57.6k	0	8.5%	1	8.5%	1	0.0%	3	0.0%	1	8.5%	3	8.5%
76.8k	—	—	1	-18.6%	1	-25.0%	2	0.0%	1	-18.6%	2	8.5%
115.2k	—	—	0	8.5%	0	0.0%	1	0.0%	0	8.5%	1	8.5%
230.4k	—	—	—	—	—	—	0	0.0%	—	—	—	—
250k	—	—	—	—	—	—	—	—	—	—	0	0.0%
Max. ⁽¹⁾	62.5 kbps		125 kbps		115.2 kbps		230.4 kbps		125 kbps		250 kbps	

Note: 1. UBRRn = 0, Error = 0.0%