

**AVSDVCO_1V8 OUTPUT FREQUENCY VS CONTROL VOLTAGE
PRE LAYOUT**

CONTROL VOLTAGE (VCTRL)	TIME PERIOD	OUTPUT FREQUENCY (F_OUT)
0.4 V	5.65 us	177 KHz
0.5 V	0.427 us	2.34 MHz
0.6 V	46.9 ns	21.3 MHz
0.7 V	7.93 ns	126 MHz
0.8 V	2.2 ns	454 MHz
0.9 V	1.07 ns	937 MHz
1.0 V	0.753 ns	1.33 GHz
1.1 V	0.647 ns	1.55 GHz
1.2 V	0.608 ns	1.65 GHz
1.3 V	0.584 ns	1.71 GHz
1.4 V	0.573 ns	1.75 GHz
1.5 V	0.565 ns	1.77 GHz
1.6 V	0.557 ns	1.80 GHz

**AVSDVCO_1V8 OUTPUT FREQUENCY VS CONTROL VOLTAGE
POST LAYOUT**

CONTROL VOLTAGE (VCTRL)	TIME PERIOD	OUTPUT FREQUENCY (F_OUT)
0.4 V	5.75 us	174 KHz
0.5 V	0.429 us	2.33 MHz
0.6 V	47.1 ns	21.2 MHz
0.7 V	8.11 ns	123 MHz
0.8 V	2.2 ns	442 MHz
0.9 V	2.26 ns	919 MHz
1.0 V	0.766 ns	1.31 GHz
1.1 V	0.653 ns	1.53 GHz
1.2 V	0.628 ns	1.59 GHz
1.3 V	0.599 ns	1.67 GHz
1.4 V	0.585 ns	1.71 GHz
1.5 V	0.576 ns	1.73 GHz
1.6 V	0.572 ns	1.75 GHz

**AVSDVCO_1V8 BIAS CURRENT VS CONTROL VOLTAGE
POST LAYOUT**

CONTROL VOLTAGE (VCTRL)	BIAS CURRENT
0.4 V	2.40 nA
0.5 V	39.7 nA
0.6 V	0.431 uA
0.7 V	2.66 uA
0.8 V	10.5 uA
0.9 V	27.4 uA
1.0 V	52 uA
1.1 V	79.5 uA
1.2 V	101 uA
1.3 V	112 uA
1.4 V	118 uA
1.5 V	123 uA
1.6 V	126uA

**AVSDVCO_1V8 BIAS CURRENT VS CONTROL VOLTAGE
PRE LAYOUT**

CONTROL VOLTAGE (VCTRL)	BIAS CURRENT
0.4 V	2.40 nA
0.5 V	39.7 nA
0.6 V	0.432 uA
0.7 V	2.66 uA
0.8 V	10.5 uA
0.9 V	27.4 uA
1.0 V	52 uA
1.1 V	79.6 uA
1.2 V	101 uA
1.3 V	112 uA
1.4 V	119 uA
1.5 V	123 uA
1.6 V	126uA

**AVSDVCO_1V8 OUTPUT FREQUENCY VS BIAS VOLTAGE
POST LAYOUT**

BIAS VOLTAGE (VDD)	TIME PERIOD	OUTPUT FREQUENCY (F_OUT)
1.5 V	1.31 ns	762 MHz
1.6 V	1.21 ns	826 MHz
1.7 V	1.14 ns	881 MHz
1.8 V	1.10 ns	912 MHz
1.9 V	1.06 ns	944 MHz
2.0 V	1.02 ns	982 MHz

**AVSDVCO_1V8 OUTPUT FREQUENCY VS BIAS VOLTAGE
PRE LAYOUT**

BIAS VOLTAGE (VDD)	TIME PERIOD	OUTPUT FREQUENCY (F_OUT)
1.5 V	1.28 ns	780 MHz
1.6 V	1.19 ns	842 MHz
1.7 V	1.10 ns	908 MHz
1.8 V	1.07 ns	934 MHz
1.9 V	1.02 ns	985 MHz
2.0 V	1.01 ns	990 MHz