

Amplitude Modulation Systems Theoretical Modeling and Hardware Validation Tables and Data

PART 1

Table 1

CAL output's peak-to-peak voltage	1.01 V
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Table 2

CAL's output period	1 ms
CAL's output frequency	1 kHz

PART 2.1

<i>Table 1</i>	Output voltage	Period	Frequency
2kHz SINE	1.96 Vpp	478.4 us	2.09 kHz
100kHz COS	4.15 Vpp	10.03 us	99.67 kHz
100kHz SINE	3.83 Vpp	9.98 us	100.02 kHz

Table 2

Ø difference between the SINE and COS outputs	39.6
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Table 3

Input voltage	Output voltage
3.92 Vpp	120 mV

Table 4

Input voltage	Output voltage
See Table 3	360 mV

PART 2.2

<i>Table 1</i>		Input voltage	Ouput voltage	Gain
Input A	Maximum	3.79 V	4.11 V	1.08
	Minimum		80 mV	0.02

<i>Table 2</i>		Input voltage	Ouput voltage	Gain
Input B	Maximum	See Table 1	4.07 V	1.07
	Minimum		80 mV	0.02

Table 3

Adder's output voltage	7.71 V
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PART 2.3

Table 1

	Output voltage
SINE output	4.44 V

Table 2

	Max Frequency	Min Frequency
RANGE in LO	1.137 kHz	18.26 kHz
RANGE in HI	55.65 kHz	139.3 kHz

PART 3

Table 1

Input voltage	Output voltage
5.49 V	13.1 V

Table 2

Output voltage
50 mV

PART 4

Table 1

P dimension	Q dimmension	m
4.67 V	2.4 V	0.321

