以下加★项为必须满足项。

1、★采样率：

53.76 GSa/s to 65.00 GSa/s

或 26.88 GSa/s to 32.50 GSa/s (sample rate divider = 2)

或 13.44 GSa/s to 16.25 GSa/s (sample rate divider = 4)

2、★DAC分辨率：8 bits

3、★通道数：2

4、★通道数可以通过软件升级到4通道

5、内部采样内存空间：1 MSa per module

6、扩展的采样内存空间：2 GSa per module（标配）

7、波形粒度：

Int. memory 128 samples

Ext. memory, sample rate divider = 1 256 samples

Ext. memory, sample rate divider = 2 128 samples

Ext. memory, sample rate divider = 4 64 samples

8、最小的波形长度：

Int. memory 128 samples

Ext. memory, sample rate divider = 1 1280 samples

Ext. memory, sample rate divider = 2 640 samples

Ext. memory, sample rate divider = 4 320 samples

9、有效的频率切换时间：> 505 μs

10、输出类型：Single ended 或是 differential

11、带宽(3 dB, excl. sin(x)/x roll-off)25 GHz (典型值)

12、★上升/下降时间 (20% / 80%)：18 ps (典型值)

13、阻抗：50 Ω (nom)

14、★幅度：

75 mVpp to 1.0 Vpp, single-ended into 50 Ω

150 mVpp to 2.0 Vpp, differential

15、幅度分辨率：200 μV (nom)

16、★直流幅度精度：± (2.5% +10 mV) (典型值)

17、★电压窗口：-1.0 V to +3.7 V single-ended into 50 Ω

18、偏置分辨率：200 μV (nom)

19、直流偏置精度：± 20 mV (typ)

20、差分偏置：In system adjustable to 0 mV

21、★终端电压窗口：

-1.0 V to + 3.7 V

VOL ≤ 1.5 V: (low level - 500 mV) to (high level +1000 mV)

VOL > 1.5 V: low level to (high level +1000 mV)

22、共计抖动，带有预失真：6 ps (pp) at 32 Gb/s PRBS (nom)

23、随机抖动RMS:200 fs (典型值)

24、★谐波失真（二次谐波）:

-45 dBc (typ), fout < 3 GHz

-35 dBc (typ), fout = 3 GHz… 6 GHz

-30 dBc (typ), fout > 6 GHz

25、★谐波失真（三次谐波）:

-45 dBc (typ), fout < 1 GHz

-40 dBc (typ), fout = 1 GHz… 3 GHz

-35 dBc (typ), fout = 3 GHz… 6 GHz

-30 dBc (typ), fout > 6 GHz

26、★双音IMD：-45 dBc (typ), fout1 = 990 MHz, fout2 = 1010 MHz

27、★SFDR (不包含谐波失真，带内)：

-80 dBc (typ), fout = 100 MHz, measured DC to 1 GHz

-70 dBc (typ), fout = DC…400 MHz, measured DC to 400 MHz

-48 dBc (typ), fout = DC…4 GHz, measured DC to 4 GHz

-53 dBc (typ), fout = 4 GHz…6 GHz, measured 4 GHz to 6 GHz

-53 dBc (typ), fout = 6 GHz…8 GHz, measured 6 GHz to 8 GHz

-50 dBc (typ), fout = 8 GHz…10 GHz, measured 8 GHz to 10 GHz

-46 dBc (typ), fout = 10 GHz…12 GHz, measured 10 GHz to 12 GHz

-50 dBc (typ), fout = 12 GHz…14 GHz, measured 12 GHz to 14 GHz

-42 dBc (typ), fout = 14 GHz…16 GHz, measured 14 GHz to 16 GHz

-42 dBc (typ), fout = 16 GHz…18 GHz, measured 16 GHz to 18 GHz

-42 dBc (typ), fout = 18 GHz…20 GHz, measured 18 GHz to 20 GHz

-48 dBc (typ), fout = 20 GHz…21 GHz, measured 20 GHz to 21 GHz

-42 dBc (typ), fout = 21 GHz…22 GHz, measured 21 GHz to 22 GHz

-40 dBc (typ), fout = 22 GHz....24 GHz, measured 22 GHz to 24 GHz

-40 dBc (typ), fout = 24 GHz....26 GHz, measured 24 GHz to 26 GHz

28、★SFDR (不包含谐波失真，邻道)：

-48 dBc (typ), fout = DC…4 GHz, measured DC to 8 GHz

-48 dBc (typ), fout = 4 GHz…6 GHz, measured 3 GHz to 8 GHz

-34 dBc (typ), fout = 6 GHz…8 GHz, measured 4 GHz to 10 GHz

-34 dBc (typ), fout = 8 GHz…10 GHz, measured 6 GHz to 12 GHz

-46 dBc (typ), fout = 10 GHz…12 GHz, measured 8 GHz to 14 GHz

-42 dBc (typ), fout = 12 GHz…14 GHz, measured 10 GHz to 16 GHz

-32 dBc (typ), fout = 14 GHz…16 GHz, measured 12 GHz to 18 GHz

-30 dBc (typ), fout = 16 GHz…18 GHz, measured 14 GHz to 20 GHz

-40 dBc (typ), fout = 18 GHz…20 GHz, measured 16 GHz to 22 GHz

-35 dBc (typ), fout = 20 GHz....22 GHz, measured 18 GHz to 24 GHz

-30 dBc (typ), fout = 22 GHz....24 GHz, measured 20 GHz to 26 GHz

-28 dBc (typ), fout = 24 GHz....25 GHz, measured 22 GHz to 27 GHz

-28 dBc (typ), fout = 25 GHz....26 GHz, measured 23 GHz to 27 GHz

29、★幅度平坦度：±2 dB (typ), fout= DC…10 GHz

30、连接器：2.92 mm “K-style” (female)

31、★内部合成时钟频率：53.76 GHz to 65.00 GHz

32、★内部合成时钟精度：± 2 ppm (spec)

33、内部合成时钟频率分辨率：7 digits, e.g. 100 Hz at 1 GHz

34、★内部合成时钟相噪：

< -115 dBc/Hz (typ) at 10 kHz offset, fOUT = 1 GHz

< -95 dBc/Hz (typ) at 10 kHz offset, fOUT = 10 GHz

35、★配置有2个slot机框

36、★配置有2套2.92mm的线缆