

Probe power supply and probe



**Tektronix**  
P6247  
1 GHz  
DIFFERENTIAL  
PROBE

DC REJECT  
ON  OFF

BANDWIDTH  
FULL  200MHz

ATTENUATION  
+10  +1

S.No: 8011327

CH 1 SIGNAL OUT PROBE

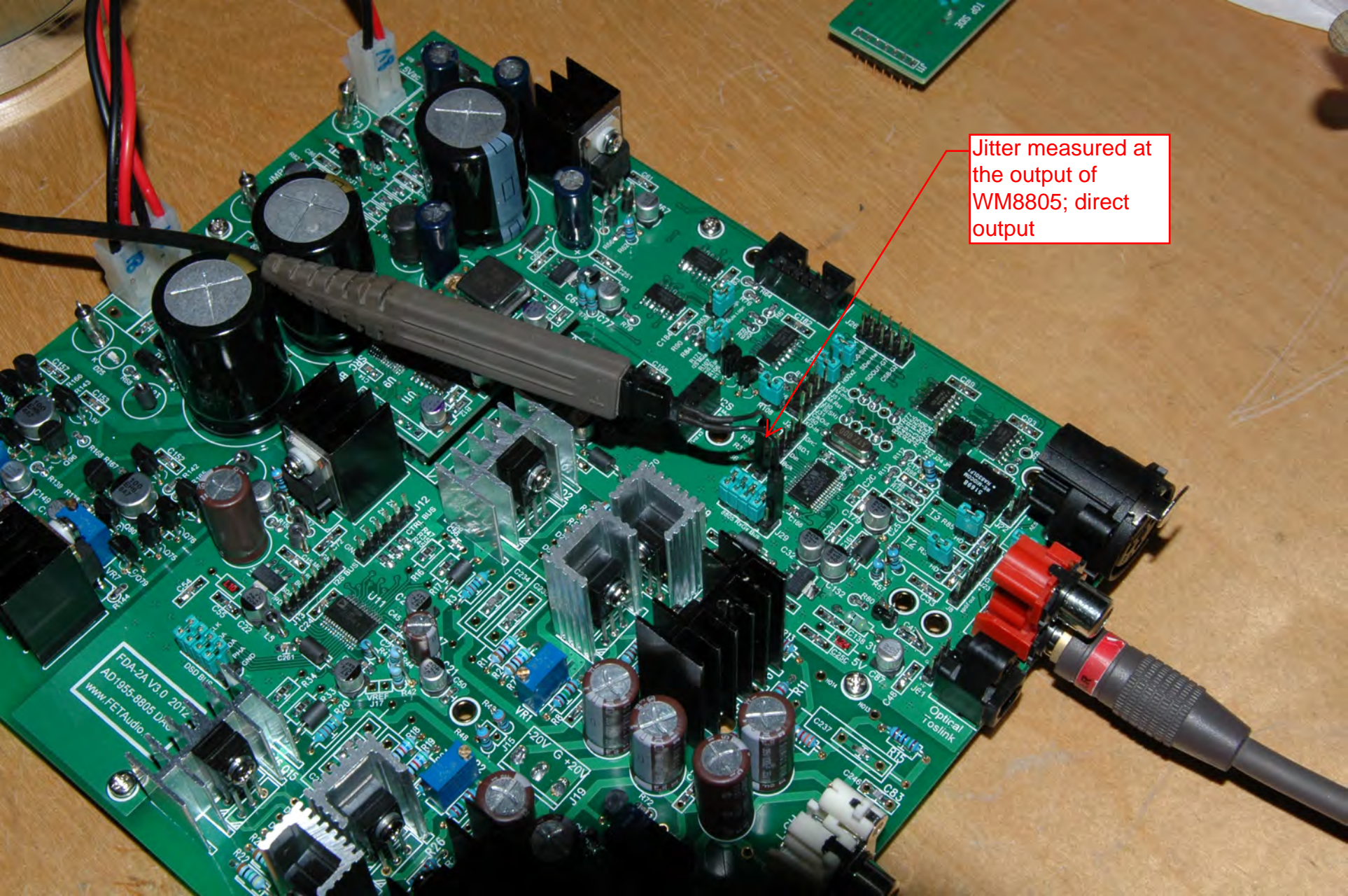
VAR/OV FINE OFFSET

VAR/OV FINE OFFSET

Power Sup POWER

R30  
NO.20110805  
電圧変圧器  
R30  
電圧変圧器  
R30  
電圧変圧器  
R30  
電圧変圧器



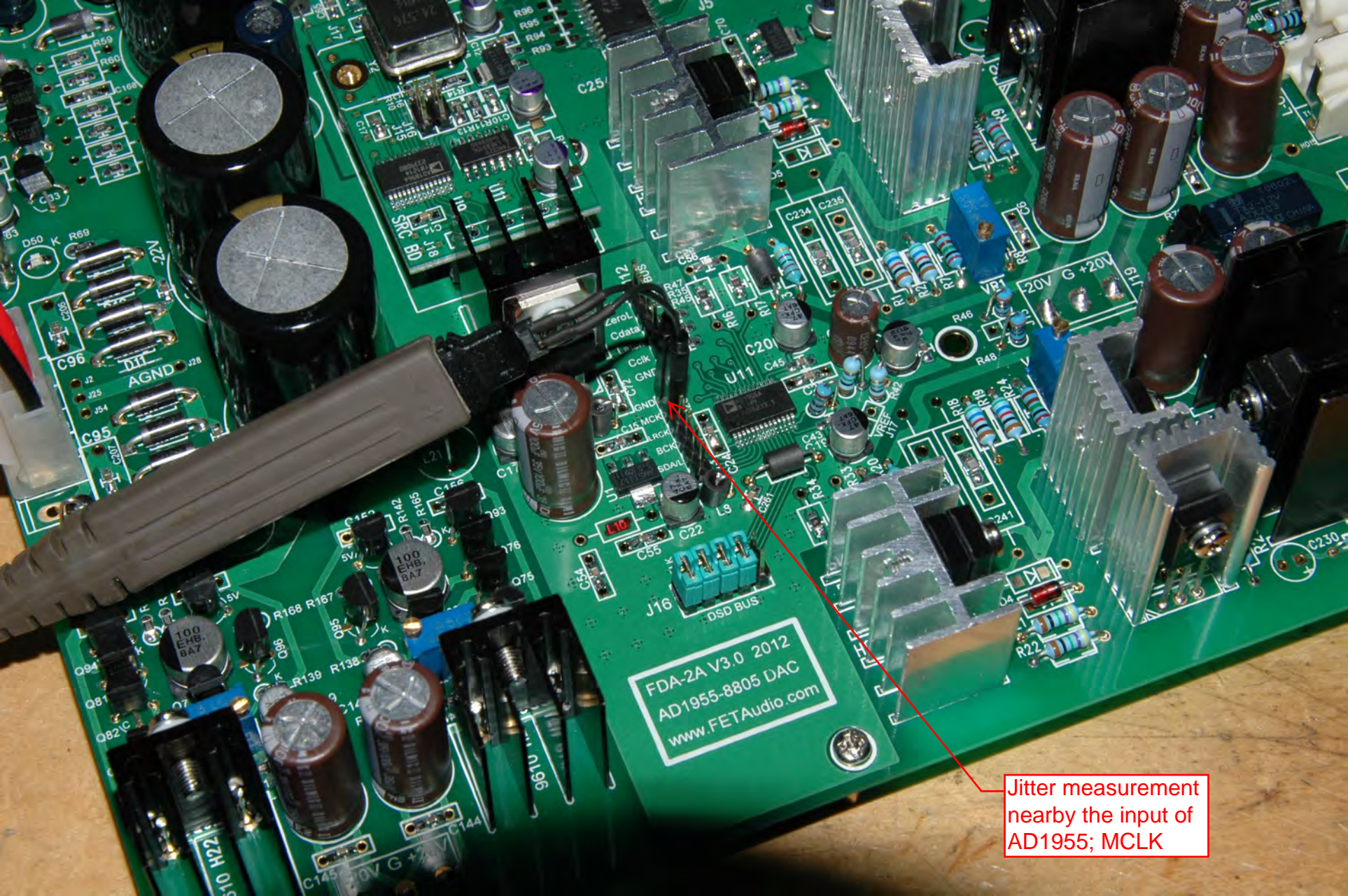


Jitter measured at the output of WM8805; direct output

FDA-2A V3.0 2012  
AD1985-8805 DAC  
www.FETAudio.com

Optical Toslink



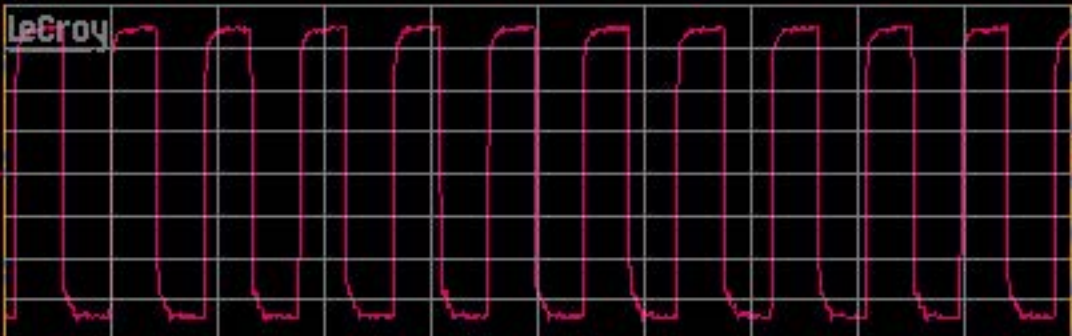


FDA-2A V3.0 2012  
AD1955-8805 DAC  
www.FETAudio.com

Jitter measurement  
nearby the input of  
AD1955; MCLK



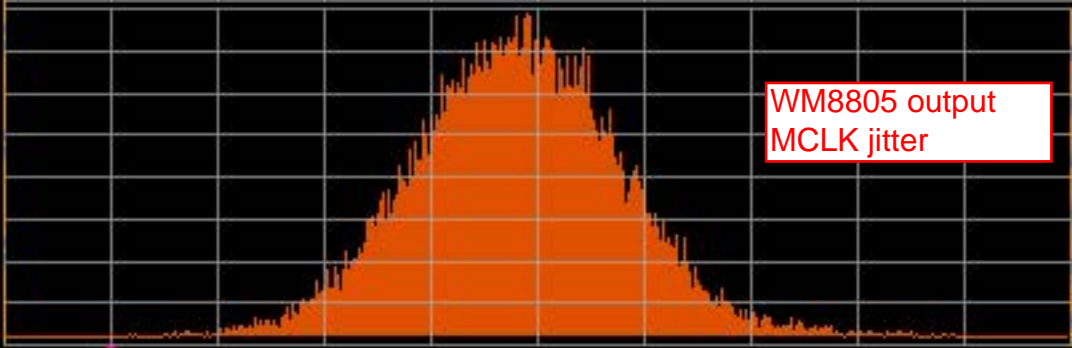
2  
.1  $\mu$ s  
302mV



use Math?  
No Yes

Math Type  
FFTAvg  
Functions  
Histogram  
Resample  
Rescale

i:Hp@lv(2)  
50 ps  
34.5 #  
←0%/→0%  
in 28410



WM8805 output  
MCLK jitter

MORE  
HIST SETUP

FIND CENTER  
AND WIDTH

	2841	sweeps:	average	low	high	sigma
Freq(2)	$\mu$		11.2897 MHz	11.2656	11.3125	0.0048
p@lv(2)			88.576 ns	88.394	88.780	0.048
sigma(A)			47.6 ps	47.2	48.1	0.2
range(A)			374.3 ps	304.0	386.0	15.0

Histogram  
custom line 2  
p@lv(2)

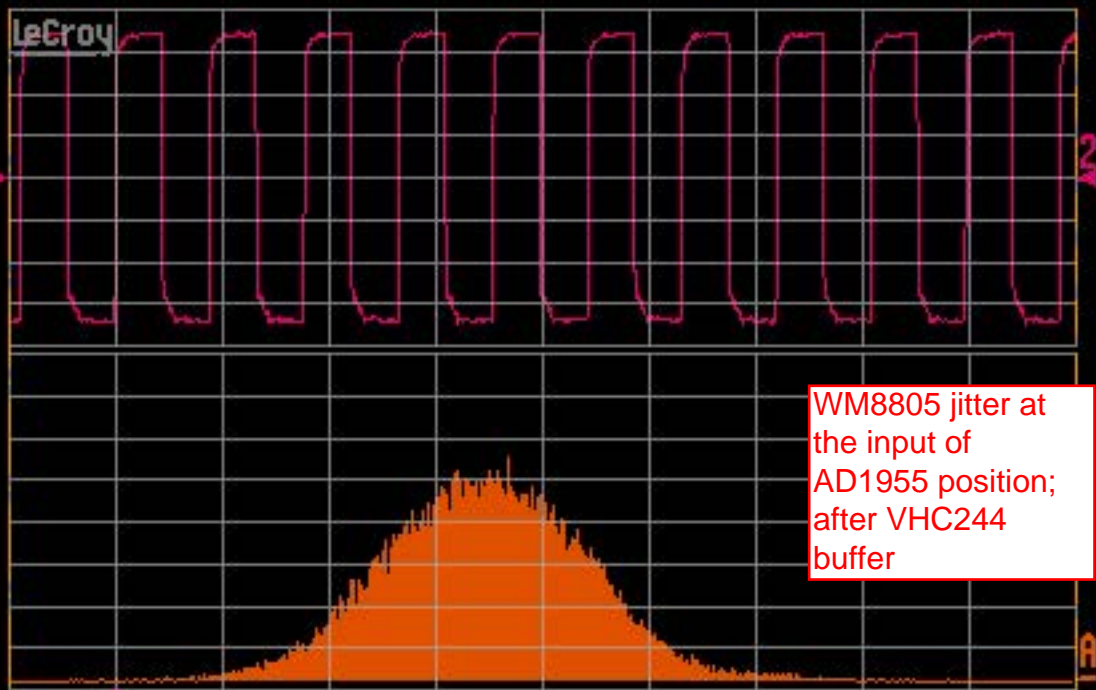
using up to  
100000  
(values)

.1  $\mu$ s  
1 trig only  
2 302mV 50 $\Omega$   
3 trig only  
4 trig only

A:Hp@lv(2)  
0 -> 1000 pts

8 GS/s

AUTO



WM8805 jitter at the input of AD1955 position; after VHC244 buffer

2  
0.1  $\mu$ s  
303mV

i:Hp@lv(2)  
50 ps  
69 #  
←0%/→0%  
in 38090

	3809 sweeps:	average	low	high	sigma
Freq(2)	$\mu$	11.2898 MHz	11.2653	11.3157	0.0053
p@lv(2)		88.575 ns	88.380	88.793	0.047
sigma(A)	↑	46.3 ps	43.6	63.2	0.8
range(A)	↑	396.8 ps	148.0	412.0	25.9

.1  $\mu$ s

- 1 trig only
- 2 303mV 50 $\Omega$
- 3 trig only
- 4 trig only

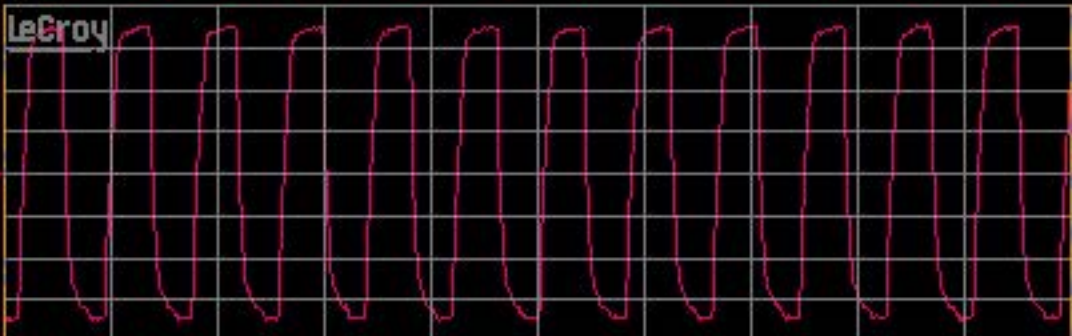


2 DC 0.006 V

8 GS/s

AUTO

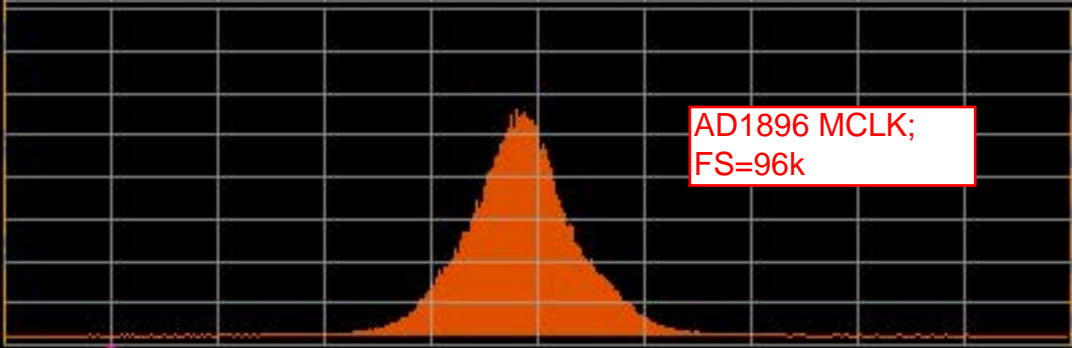
2  
50 ns  
299mV



use Math?  
No Yes

Math Type  
FFTAvg  
Functions  
Histogram  
Resample  
Rescale

Hp@lv(2)  
.1 ns  
345 #  
←0%/→0%  
in 100001



MORE  
HIST SETUP

FIND CENTER  
AND WIDTH

	11772 sweeps:	average	low	high	sigma
Freq(2)	⌘	24.5774 MHz	24.2510	24.9640	0.1098
p@lv(2)		40.690 ns	40.286	41.109	0.053
sigma(A)	↑	52.6 ps	52.2	53.3	0.1
range(A)	↑	763.3 ps	644.0	822.0	68.1

Histogram  
custom line 2  
p@lv(2)

using up to  
100000  
(values)

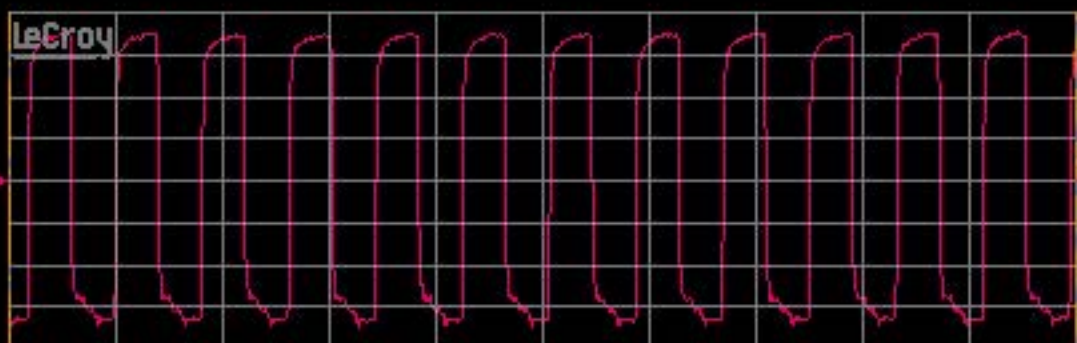
50 ns  
1 trig only  
2 299mV 50Ω  
3 trig only  
4 trig only

A:Hp@lv(2) 0 -> 1000 pts

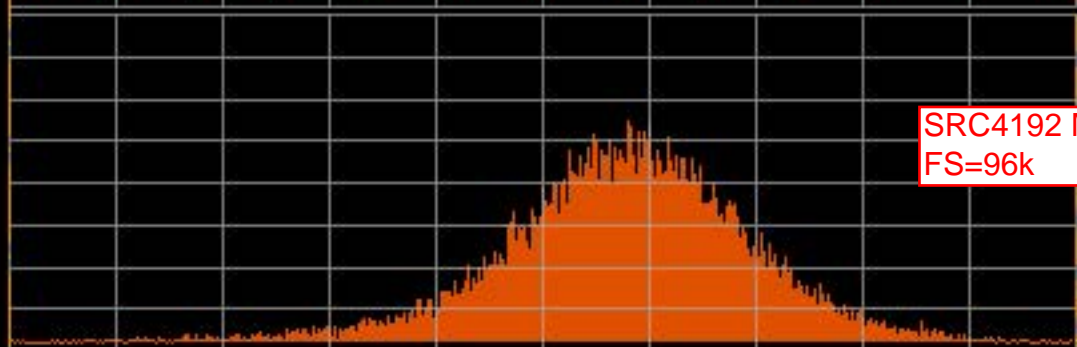
8 GS/s

AUTO

2  
50 ns  
304mV



Hp@lv(2)  
10 ps  
34.5 #  
←0%/→0%  
in 20108



SRC4192 MCLK;  
FS=96k

	1106 sweeps:	average	low	high	sigma
Freq(2)	Ω	24.5764 MHz	24.5105	24.6474	0.0149
p@lv(2)		40.690 ns	40.627	40.759	0.012
sigma(A)	↑	11.38 ps	11.17	11.54	0.09
range(A)	↑	98.76 ps	95.60	99.20	0.50

50 ns  
1 trig only  
2 304mV 50Ω  
3 trig only  
4 trig only

2 DC -0.018 V

8 GS/s

AUTO