

1 Digitalni osciloskop – Vaja preko oddaljenega dostopa

1.1 Digitalni osciloskop LeCroy

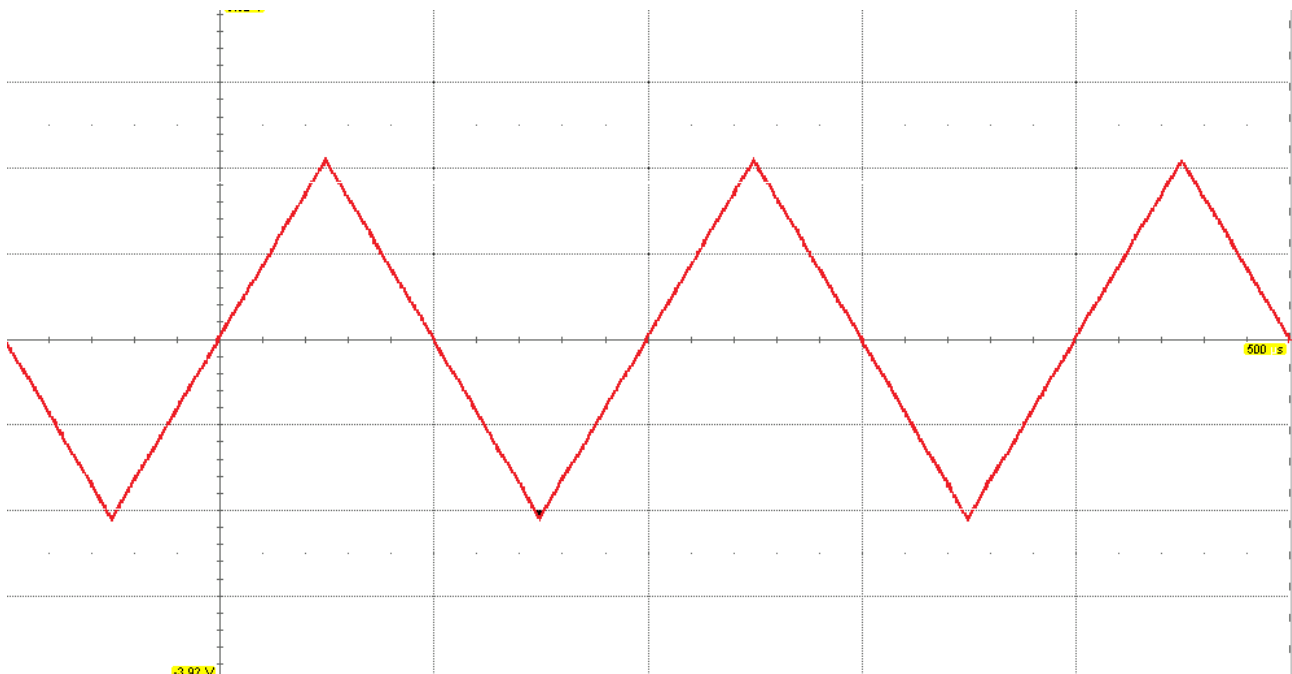
Meritve parametrov

Podatki:

Frekvenca = 5kHz

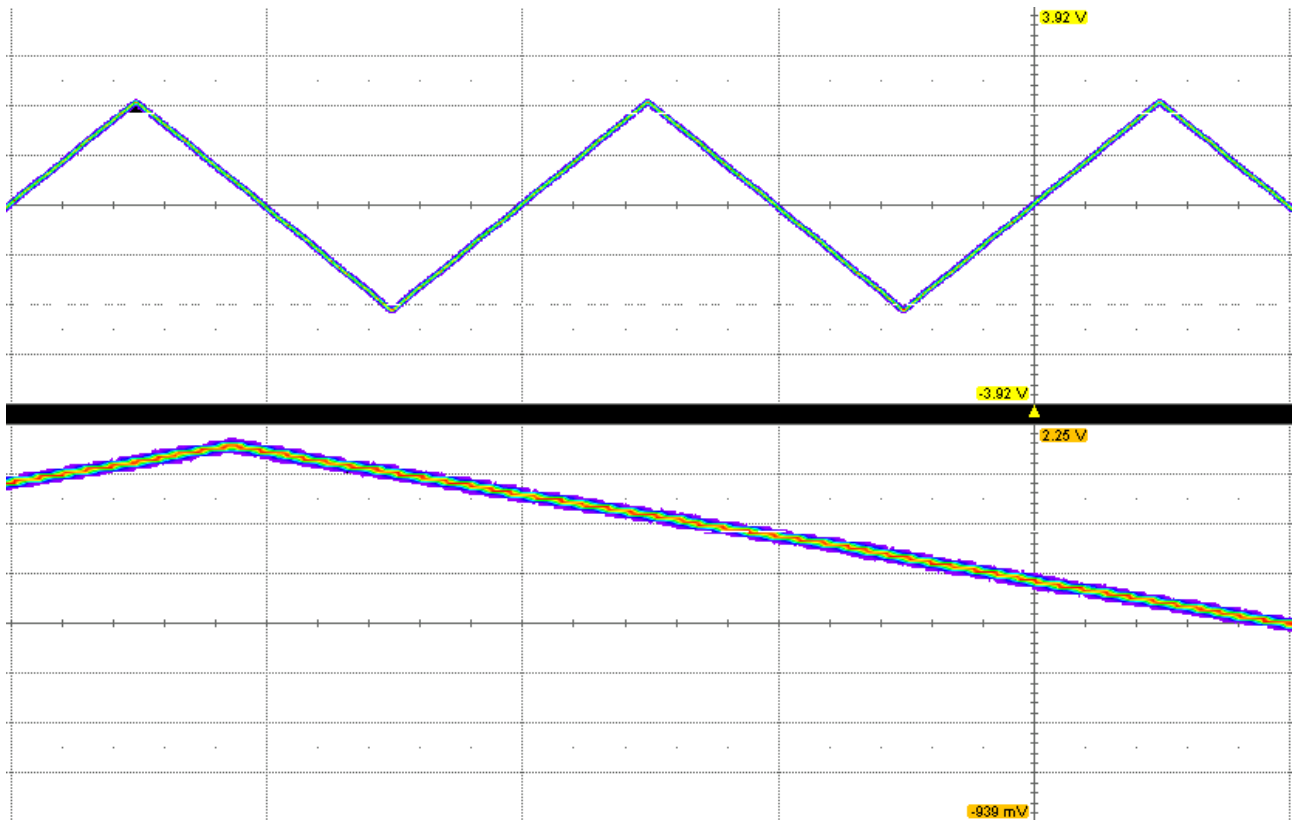
Amplituda = 6V

Signal = trikoten



P1:freq(C1)	P2:pkpk(C2)	P3:amp(C1)
4.999534 kHz	457 mV	4.17 V
5.00009238 kHz	411.08 mV	4.1195 V
4.979088 kHz	366 mV	946 mV
5.016500 kHz	564 mV	4.20 V
4.36115 Hz	36.28 mV	275.0 mV
5.324e+3	1.331e+3	1.331e+3

Persistenca - Jitter



Zaradi izredno dobrega generatorja ne prihaja do večjega jitterja.

1.2 Meritve linearnega sistema z osciloskopom

Mejna frekvenca

$$f_p = 10 \text{ kHz}$$

Ojačanje četveropola

$$(f_1, a_1) = (10 \text{ Hz}, 13,74 \text{ dB})$$

$$(f_2, a_2) = (500 \text{ Hz}, 13,67 \text{ dB})$$

$$(f_3, a_3) = (1.5 \text{ kHz}, 13,61 \text{ dB})$$

$$(f_4, a_4) = (6.5 \text{ kHz}, 12,15 \text{ dB})$$

$$(f_5, a_5) = (9 \text{ kHz}, 11,13 \text{ dB})$$

Fazni zasuk

frekvenca [Hz]	zakasnitev [μ s]	faza [$^\circ$]
10	0,0003440	1,238
500	0,0000190	3,420
1500	0,0000166	8,964
4000	0,0000156	22,464
5500	0,0000150	29,700
6500	0,0000145	33,836
9000	0,0000131	42,574

