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Appunti Donoration SETM
            06/10/2022 Pott "OscilloscopioDigitale" fino a 2.3
 (1.2)
                                                                                   misurate 4. = -25 div 42 = 2.5 div
                                                                                                                     misurals y.

Q Kv = 200 \text{ mV/sliv}

Sxi = \frac{1}{2}

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                                                                 V_{pp} = (y_2 - y_1)k_V = (5.200)_{mV} = 1 V
                                                                       SV_{pp} = \frac{\partial V_p}{\partial V_p} \left| S_{V_1} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{Kv} = \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \right| S_{V_2} + \frac{\partial V_{pp}}{\partial V_{pp}} \left| S_{V_2} + \frac{\partial V_{pp}}
                                                                                                                                        = 1- KVI 641 + 1 KVI 642 + (42-41) 6kv =
                                                                                                                                       = Kv ( Sy, + Syz) + (42-41) (5kv) -> data sheet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <10 mV: ±4% full scale
≥10 mV: ±3% full scale
            = 200 \, \text{mV} \, (\frac{2}{10} \, \text{div}) + (5 \, \text{div}) \frac{3}{100} \cdot 8 \cdot 200 \, \text{mV} =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4> incertesta
                                                                                                                                                                                    \frac{00}{\sqrt{m}} = \sqrt{m} + 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      allobur
                                                                                   40 mV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 = 100 Skv qui 8kv ports he 8 division unted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \frac{3}{100} \cdot 8 \text{div} \cdot 200 \, \text{mV} = 5 \text{kv} = 0.048 \, \text{mV}
\Rightarrow V_{pp} = (1.000 \pm 0.088) V
                   V_{\text{OP}} = V_{\text{DP}} \cdot \frac{1}{\sqrt{2}} = \frac{1}{2\sqrt{2}} \text{ V} = 0.35355 \text{ V}
                 S_{off} = | \frac{\partial V_{off}}{\partial V_{pp}} | \frac{\partial V_{pp}}{\partial V_{pp}} = \frac{1}{2\sqrt{12}} \cdot 0.088 V = 0.03111 V
                         V. = (0.35355 ± 0.03111)V
                                                                                                             Misunato x_1 = -5 \text{ div}

@ K_0 = 100 \text{ ps} x_2 = 5 \text{ div}
                                                                                                                                                                                                                                                                                                   T = (x2-x)/k0 = 10div · 100 ps = 0.001s
                                                                                                                                                                                                                                                                                                 ST = | 2T | Sx, + | 2T | Sx2 + | 2T | Sto | 3x1 | 3x2 | 3x2 + | 2T | Sto | 3x1 | 3x2 | 3x2 | 3x3 | 3x3
                                                                                                                                                                                                                                                                                                        ST = Ko ( Sx2+ Sx1) =
                                                                                                                                                                                                                                                                                                                                                                                              \frac{100 \text{ ps}}{\text{div}} \left( \frac{2}{10} \text{ div} \right) = 20 \text{ ps} = 2.10 \text{ s}
                                                                                                                                                                                                                                                                                                      T = (0.00100 \pm 0.00002) s

f = 1 = 1 = 1000 Hz
                                                                                                                                                                                                                                                                                                          Sf = \left| \frac{\partial f}{\partial T} \right| \cdot \delta T = \left| -\frac{1}{T^2} \right| ST = \frac{2 \cdot 10^{-5}}{10^{-6}} = \frac{20}{5} = \frac{20}{5} = \frac{1}{10^{-6}} = \frac{1}{5} = \frac{1}{10^{-6}} = \frac{1}{10
                                                                                                                                                                                                                                                                                                             f = (1000 ± 20) Hz
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