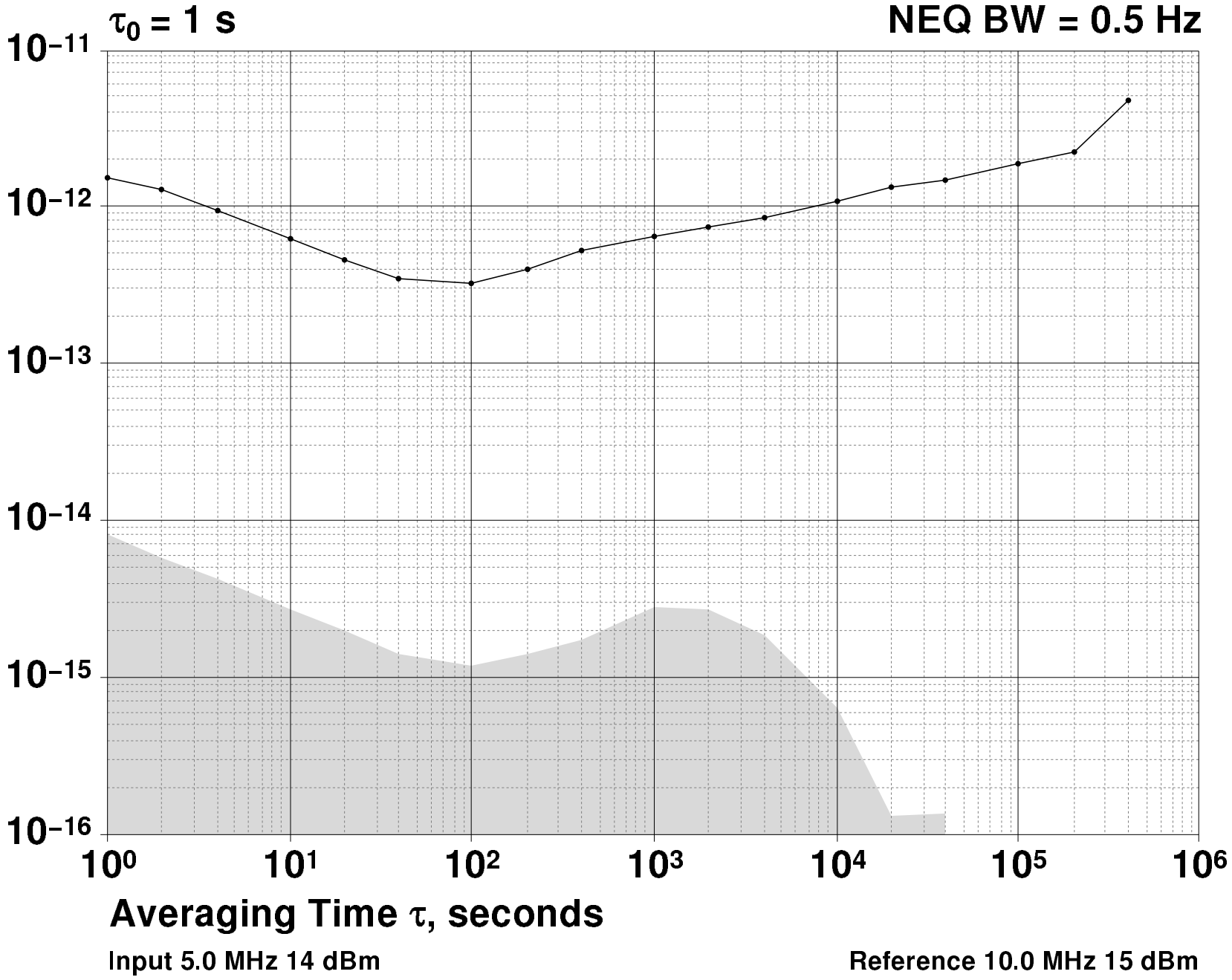
26/08/2011 17:14:26
13d 3h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 5.0 MHz 14 dBm

Reference 10.0 MHz 15 dBm

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	1.4943×10^{-12}	8.21832×10^{-15}
2	1.2765×10^{-12}	5.82005×10^{-15}
4	9.386×10^{-13}	4.27875×10^{-15}
10	6.164×10^{-13}	2.73979×10^{-15}
20	4.523×10^{-13}	1.95849×10^{-15}
40	3.502×10^{-13}	1.41509×10^{-15}
100	3.205×10^{-13}	1.19060×10^{-15}
200	4.02×10^{-13}	1.42821×10^{-15}
400	5.25×10^{-13}	1.75833×10^{-15}
1000	6.36×10^{-13}	2.76833×10^{-15}
2000	7.31×10^{-13}	2.73359×10^{-15}
4000	8.39×10^{-13}	1.84332×10^{-15}
10000	1.06×10^{-12}	6.42320×10^{-16}
20000	1.34×10^{-12}	1.33131×10^{-16}
40000	1.47×10^{-12}	1.33997×10^{-16}
100000	1.9×10^{-12}	
200000	2.2×10^{-12}	
400000	4.6×10^{-12}	

$\tau_0 = 1$ s NEQ BW = 0.5 Hz

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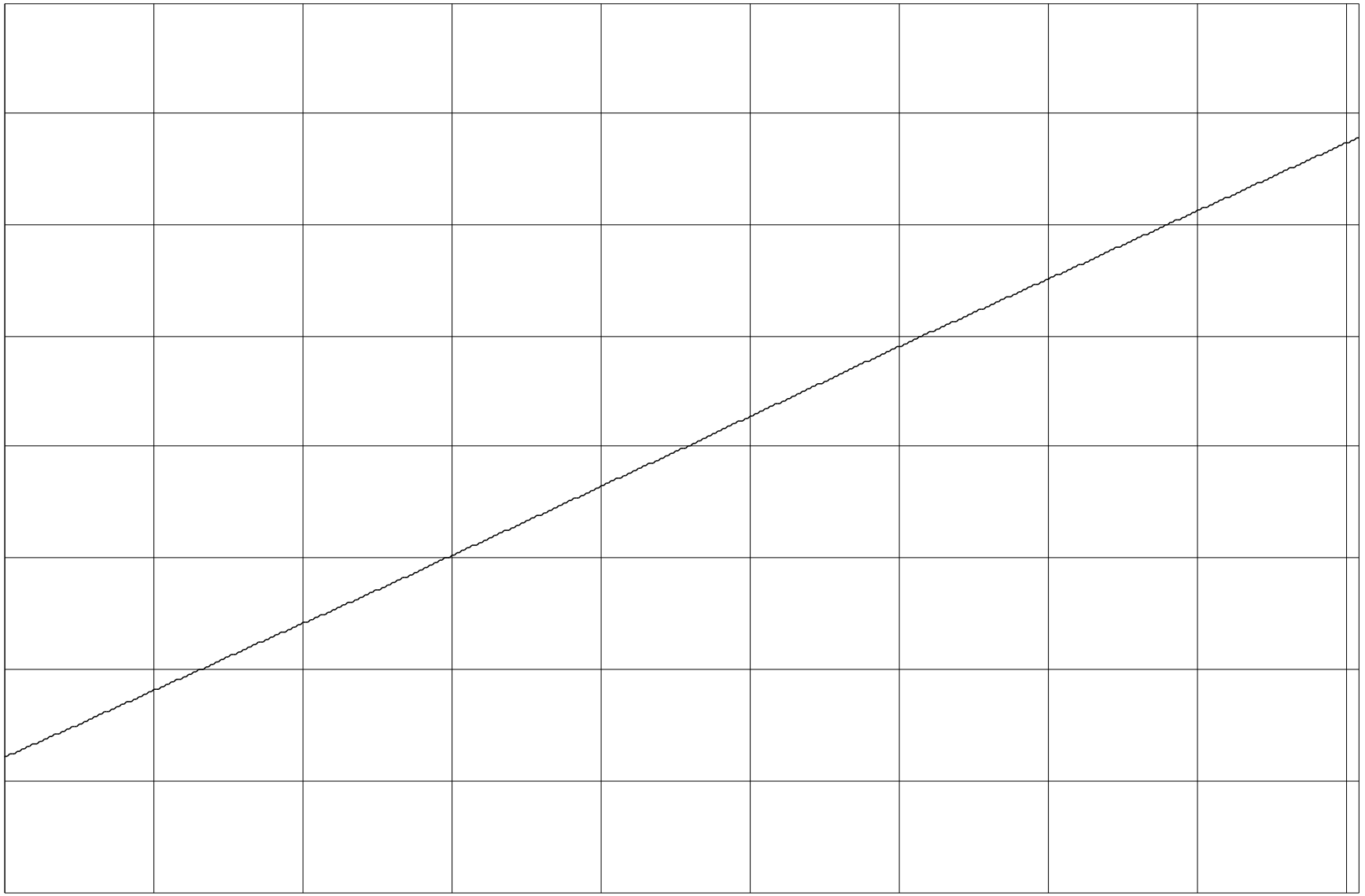
Phase Difference

3.0x10^{-09} s/div

Center: 2.500595x10^{-05} s



60s/div

Input 5.0 MHz 14 dBm

Reference 10.0 MHz 15 dBm

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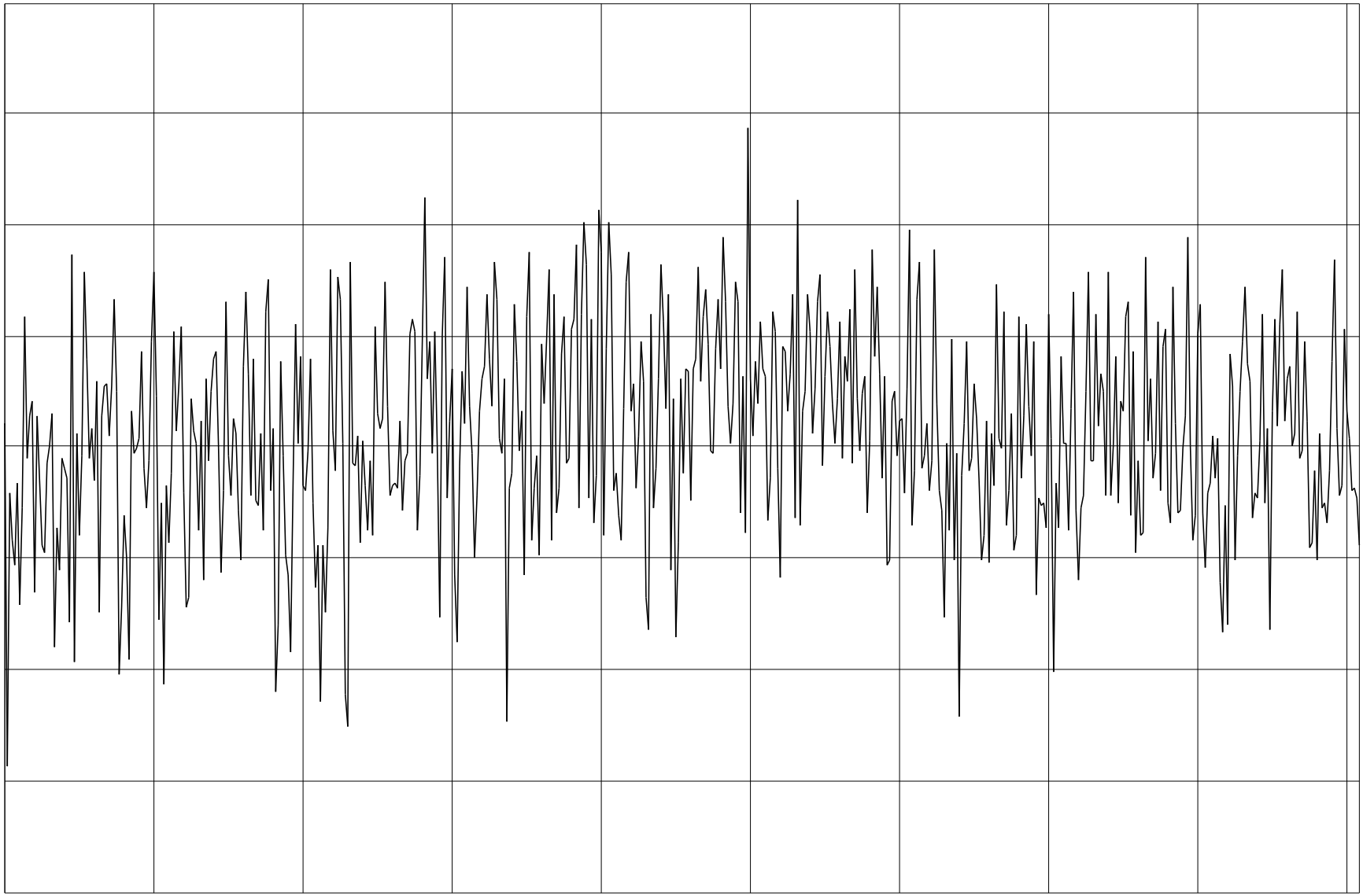
TSC 5120A

Frequency Difference

2.0x10^{-12} /div

Center: 3.035x10^{-11}



60s/div

Input 5.0 MHz 14 dBm

Reference 10.0 MHz 15 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	5.00000000077850
10	5.00000000778199
100	5.000000007783090
1000	5.000000007784452

Reference Frequency: 10.0 MHz (auto)

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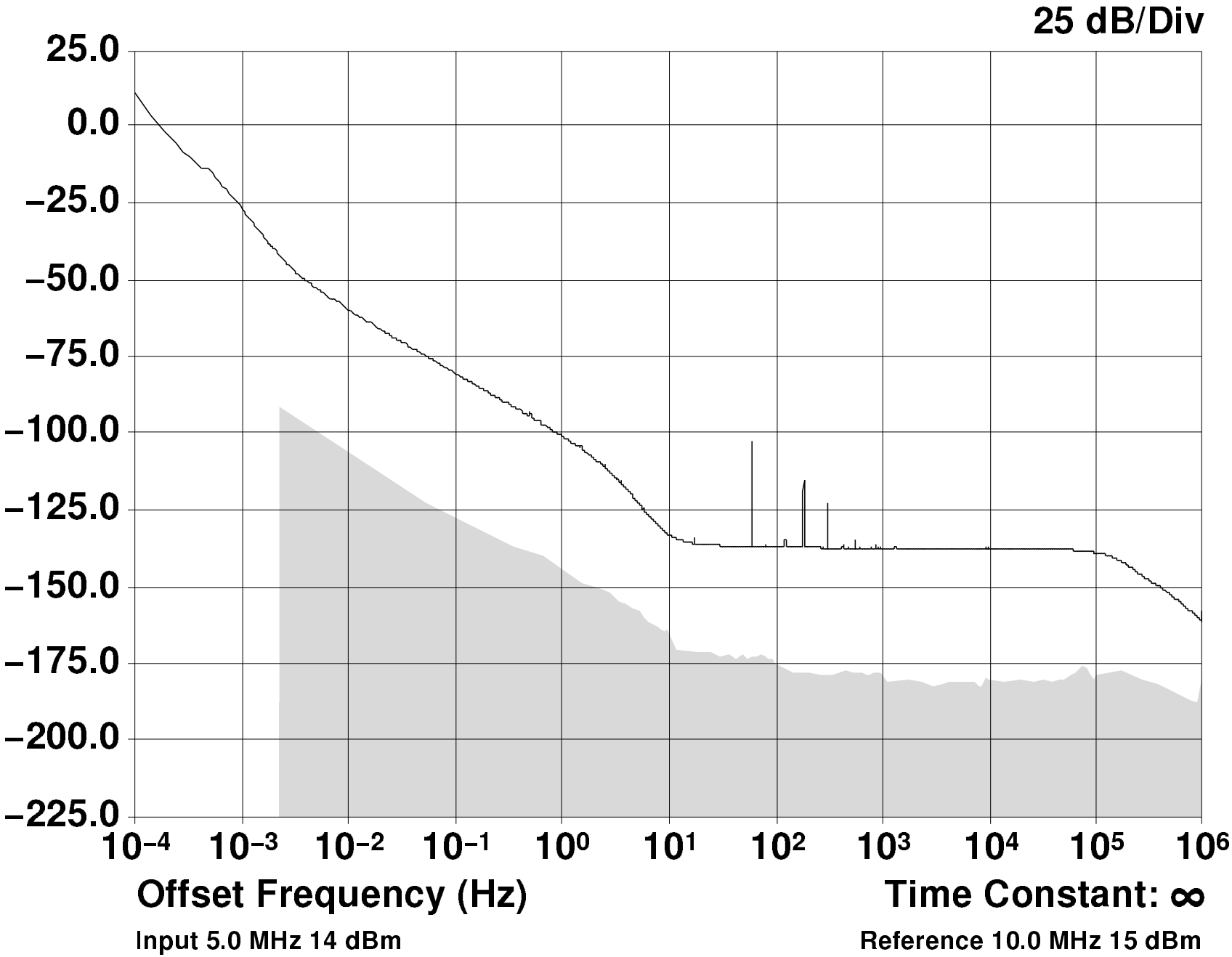
ℒ(f) Phase Noise at 5.0 MHz (dBc/Hz)



Input 5.0 MHz 14 dBm

Reference 10.0 MHz 15 dBm