Prewarping the digital frequencies we have

= 104+am (0.27) = 7265 oad)s

$$\Omega S = \frac{2}{T} + \tan \omega_S T = \frac{2}{2 \times 10^{24}} + \tan \left(\frac{7007 \times 2 \times 10^{-4}}{2}\right)$$

= .104x tam (0.07 x)

= 2235 rad/s.

The order of the slitter

$$N = log \sqrt{lo^{0.1} \alpha s^{2} - 1} = log \sqrt{lo^{0.3} - 1} = log \sqrt{lo^{0.3} - 1} = log \sqrt{lo^{0.3} - 1} = log \sqrt{log 325}$$
 $log \Omega s$
 Ωp
 $log \Omega s$
 $log \Omega s$

1= N =1

$$\begin{array}{c} S \longrightarrow \underline{\mathcal{L}_{\mathbf{c}}} \\ S \longrightarrow \overline{\mathbf{7265}} \\ S \longrightarrow \overline{\mathbf{7265}} \\ S \longrightarrow S \longrightarrow \overline{\mathbf{7265}} \\ \end{array}$$

Using bilear bilinean transformation

$$H(2) = H(5)$$

$$S = \frac{2}{T} \left(\frac{1 - 2^{-1}}{1 + 2^{-1}} \right)$$

$$S = \frac{2}{2 \times 10^{-1}} \left(\frac{1 - 2^{-1}}{1 + 2^{-1}} \right)$$

$$H(2) = \frac{0.5792(1 - 2^{-1})}{1 - 0.15842}$$