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| **Variable** | **Meaning** | **Value** |
| $$l$$ | Soma length (cylindrical compartment) | 10 μ |
| $$d$$ | Soma diameter | 10 μ |
| $$τ\_{m}$$ | Membrane time constant | 0.01 s |
| $$E\_{exc}$$ | Excitatory reversal | 0 mV |
| $$E\_{inh}$$ | Inhibitory reversal | -70 mV |
| $$E\_{leak}$$ | Leak reversal | -65 mV |
| $$E\_{Ns}$$ | Sodium channel reversal potential | 55 mV |
| $$E\_{KDR}$$ | Delayed rectifier potassium channel reversal potential | -75 mV |
| $$g\_{Ns}$$ | Sodium channel maximum conductance | 20 mS/cm2 |
| $$g\_{KDR}$$ | Delayed rectifier potassium channel maximum conductance | 25 mS/cm2 |