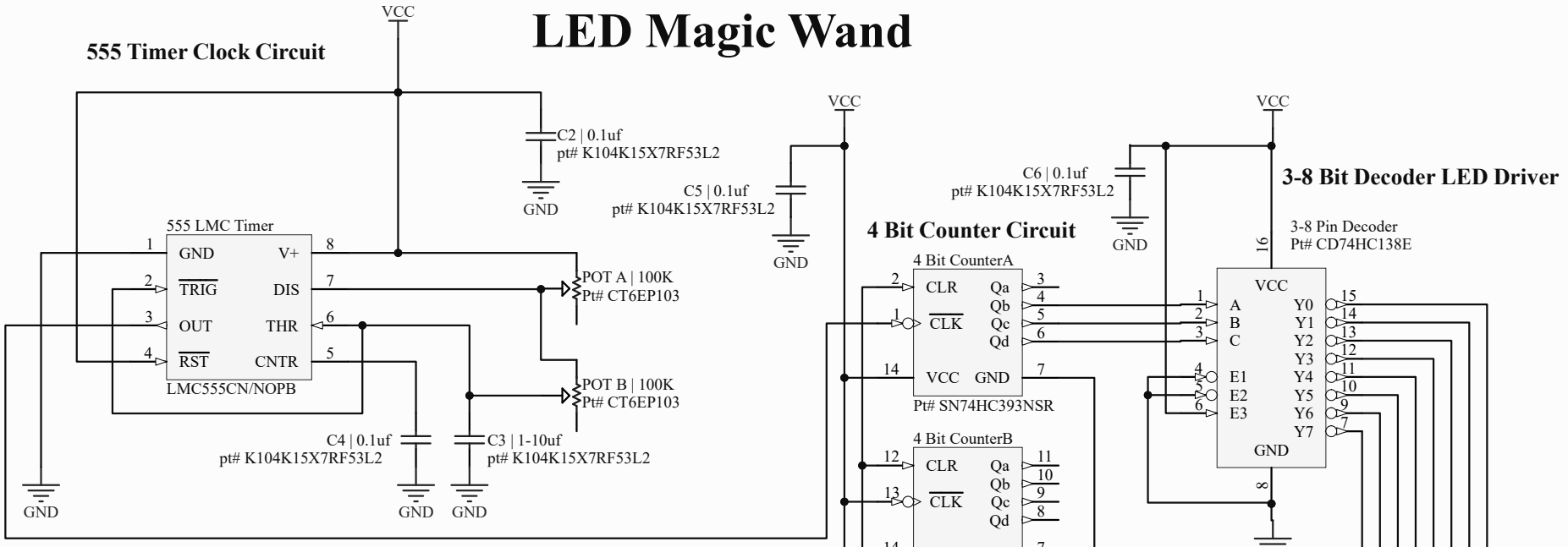
LED Magic Wand



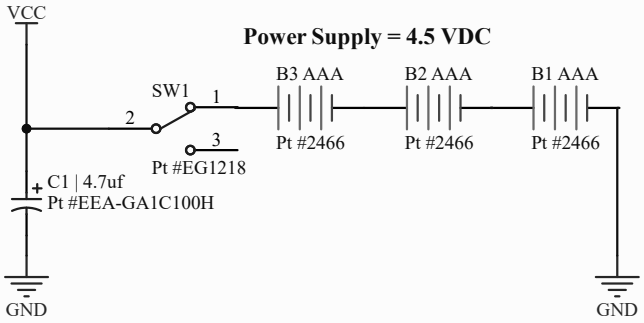
555 Modeling Equations

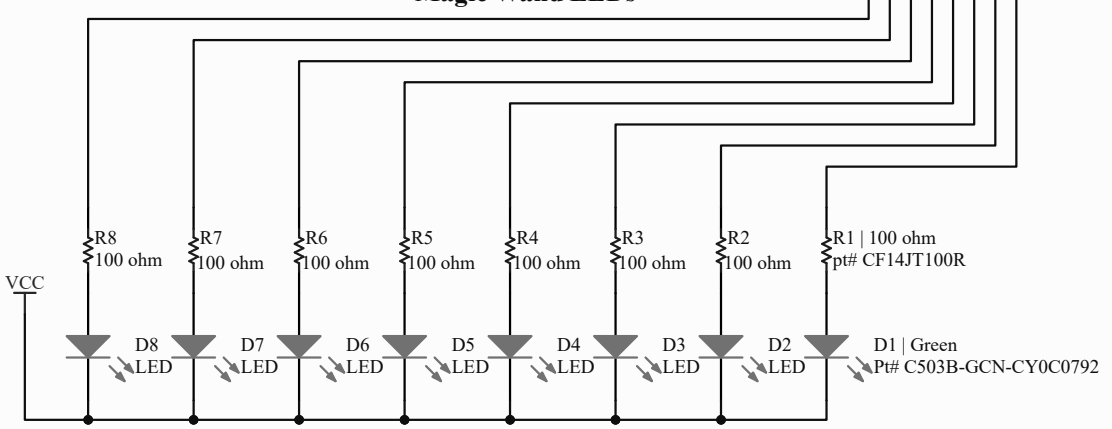
Total Time Period:
$T = 0.693 (RA + 2*RB)*C$

Therefore, Frequency:
$f = 1 / T = 1 / [0.693 (RA + 2*RB)*C]$

Duty Cycle:
$D = (RB) / (RA + 2RB)$

Note:
The SN74HC393NSR has two 4 bit counters in this package. I am using oonly one and the other is left blank for any modification in future.





Title: LED Magic Wand Schematic Diagram		
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Date: 9/09/2024		Sheet of
File: Magic Wand Schematic 1.SchDoc		Drawn By: Muhammad Tahir Hassan