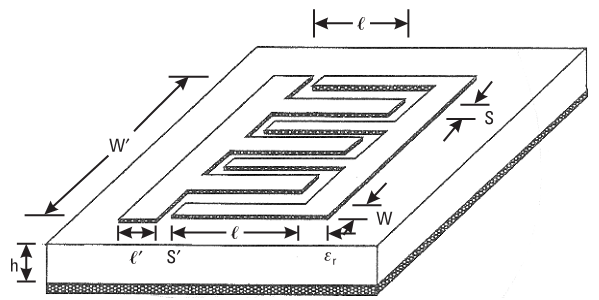
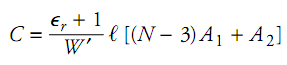
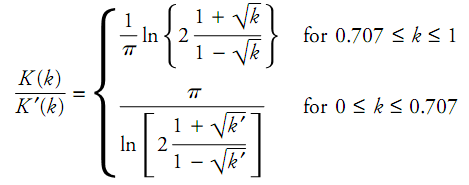
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* capacitance per unit length along W’:
* A1­ , A2 – capacitance per unit length of the fingers
* N- Number of fingers.
* l- Shown in the picture- expressed in microns.
* For infinite number substrate thickness (or no ground plane) –

A1= 4.409\*10-6 pF/µm.

A2= 9.92\*10-6 pF/µm.

* The total capacitance of an interdigital structure of length l is expressed as:
* For a finite substrate:
* Another general expression for the total series capacitance of an interdigital capacitor can also be written as:
  + l is in micron
  + N – number of fingers
  + - effective dielectric constant of the microstrip line of width W

where:



and: