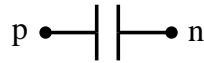


c.ece



Attributes

```
mainnodes: p n
outvar: i1=cur(p)_of_c1 v1=v1_of_c1
stparms: v0sv=0
rparms:
+   c=1
+   k_scale=1
+   r_startup=0.001
outvar_ac: i1ac=cur(p)_of_c1
```

Description

c.ece is a capacitance of value **c** connected between nodes **p** and **n**. **v0sv** is used to specify the “start-up” value of the capacitor voltage in startup simulation. The output variables **i1** and **v1** are the branch current and branch voltage, respectively. The AC output variable **i1ac** gives the AC branch current.

The real parameter **k_scale** is used to scale the capacitance value by a constant.

In start-up simulation, a series resistance, specified by the real parameter **r_startup**, is added to the model. This helps in avoiding “singular matrix” issues which sometimes arise in start-up simulation (e.g., when two capacitors are connected in parallel).