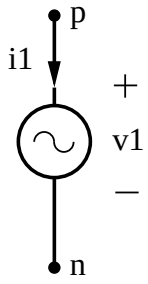
# vsrc_am.ece




## Attributes

```
  mainnodes: p n
  outvar:
+   i1=cur(p)_of_v0
+   v1=v1_of_v0
  rparms:
+   a=1
+   f_c=10k
+   f_m=100
+   m=0.2
```

## Description

`vsrc_am.ece` is an AM voltage source connected between nodes `p` and `n`. The real parameters, `a`, `f_c`, `f_m`, `m` represent $A$, $f_c$, $f_m$, and $m$, respectively, in the following equation for the source voltage:

$$V_s(t) = A\,[1 + m\,\sin(2\pi f_m t)]\,\sin(2\pi f_c t).$$

The output variables `i1` and `v1` are the branch current and branch voltage, respectively.

AC behaviour is not implemented.