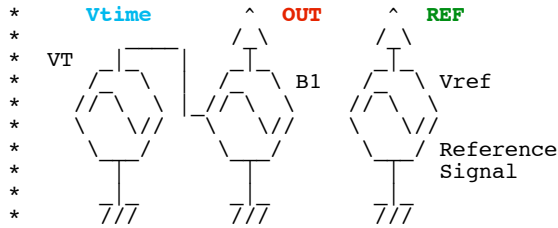


PM_Wave

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* www.idea2ic.com

* PM Signal



```
* spec strt_f stop_f step_f vector [vector ...]
* spec 2 2k 2 v(out) spec 2Hz->2kHz @ 2Hz steps
* .tran TSTEP TSTOP TSTART TMAX ?UIC?
.OPTIONS GMIN=1e-12 METHOD=trap ABSTOL=1e-12 TEMP=27 srcsteps = 1 gminsteps = 1
*=====
VT Vtime 0 PWL ( 0 0 1 1 )
B1 OUT 0 V = sin(6.283185307179*200*v(Vtime) +1*sin(6.283185307179*20*v(Vtime)))
Vref REF 0 dc = 0 sin( 0 1 200 -1.25m)
.tran 500u 1 0 500u
```

.control

set pensize = 1

run

plot v(out) v(ref) xlimit 0 100m

set pensize = 1

*=====

*hanning,cosine,bartlet,blackman,rectangular,hamming,triangle,gaussian

linearize

set specwindow = "blackman"

spec 1 500 1 v(out)

plot db(v(out))

.endc

.end

=====**END_OF_SPICE**=====

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The total sample period is 1sec(1Hz)

The Carrier is at 200Hz.

Modulation is at 20Hz at 1 radian peak.

```
B1 OUT 0 V = sin(6.283185307179*200*v(Vtime) +1*sin(6.283185307179*20*v(Vtime)))
Vref REF 0 dc = 0 sin( 0 1 200 -1.25m)
```

Plot both the PM signal and reference signal.

