

5. Circuit path lengths are calculated.

a. Grid count is converted to nanoseconds by dividing by 360.

6 inches

<<< AAC

DAB (6) daa (84) dcd (0) *** .

360 package delay for DAB
 6 DAB - daa
 84 daa - dcd
 108 36 per pin

 558 1.55 nanoseconds

<<< ABC

DBB (6) dba (78) dch (0) *** .

360 package delay for DBB
 6 DBB - dba
 78 dba - dch
 108 36 per pin

 552 1.53 nanoseconds

<<< LAC

DCF (84) dhi (162) ehm (36) fem (0) *** .

636 longest nonlatch input (dci in TDB)
 360 package delay for DCF
 84 DCF - dhi
 162 dhi - ehm
 36 ehm - fem
 144 36 per pin

 1422 3.95 nanoseconds

186,000

360,000,000
 3
 900,000,000

3
 4 1420
 12
 22

4
 36
 144
 250
 30
 280
 24

430
 240
 670
 300
 970