NOR

1. **Input pin capacitances:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input Pins** | **Rise Cap (fF)** | **Fall Cap (fF)** | **Average Cap (fF)** |
| A | 2.24×10-3 | 2.32×10-3 | 2.28×10-3 |
| B | 5.6×10-3 | 5.5×10-3 | 5.55×10-3 |

1. **Transition Time Table:**

**(i) Output Rise Transitions** **(in ns)**

**Related pin A**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 27×10-3 | 27×10-3 | 42×10-3 |
| **10 fF** | 68×10-3 | 68.99×10-3 | 79×10-3 |
| **100 fF** | 484×10-3 | 484.99×10-3 | 483.99×10-3 |

**Related pin B**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 24×10-3 | 26.86×10-3 | 89×10-3 |
| **10 fF** | 68×10-3 | 69×10-3 | 138.99×10-3 |
| **100 fF** | 484×10-3 | 485×10-3 | 502.86×10-3 |

**(ii) Output Fall Transitions** **(in ns)**

**Related pin A**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 19×10-3 | 19×10-3 | 34×10-3 |
| **10 fF** | 47×10-3 | 47×10-3 | 59×10-3 |
| **100 fF** | 329×10-3 | 328.99×10-3 | 329.99×10-3 |

**Related pin B**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 26.99×10-3 | 27.99×10-3 | 96×10-3 |
| **10 fF** | 57.99×10-3 | 56×10-3 | 146×10-3 |
| **100 fF** | 340×10-3 | 342×10-3 | 433×10-3 |

1. **Propagation delay time tables**:

**(i) Cell Rise Delay (in ns)**

**Related pin A**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 73×10-3 | 92×10-3 | 201.99×10-3 |
| **10 fF** | 106.99×10-3 | 124.99×10-3 | 244×10-3 |
| **100 fF** | 402×10-3 | 421×10-3 | 538.99×10-3 |

**Related pin B**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 37.86×10-3 | 57.86×10-3 | 116×10-3 |
| **10 fF** | 70.86×10-3 | 90.86×10-3 | 198×10-3 |
| **100 fF** | 364×10-3 | 385.86×10-3 | 561.86×10-3 |

**(ii) Cell Fall Delay (in ns)**

**Related pin A**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 68.99×10-3 | 90.99×10-3 | 221×10-3 |
| **10 fF** | 97.99×10-3 | 120×10-3 | 257×10-3 |
| **100 fF** | 318.99×10-3 | 340.99×10-3 | 483×10-3 |

**Related pin B**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 32.99×10-3 | 51.99×10-3 | 140.99×10-3 |
| **10 fF** | 58.99×10-3 | 77×10-3 | 203.99×10-3 |
| **100 fF** | 279.99×10-3 | 298.99×10-3 | 505.99×10-3 |

1. **Static Power**

|  |  |
| --- | --- |
| **Condition (AB)** | **Power (nW)** |
| 00 | 0.623 |
| 01 | 0.618 |
| 10 | 0.986 |
| 11 | 0.616 |

1. **Dynamic Power Table:**

**(i) Rise Power (in nW)**

**Related pin A**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 294.30×103 | 209.58×103 | 77.93×103 |
| **10 fF** | 428.53×103 | 369.81×103 | 143.51×103 |
| **100 fF** | 677.91×103 | 477.18×103 | 302.44×103 |

**Related pin B**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 334.29×103 | 252.24×103 | 66.84×103 |
| **10 fF** | 551.45×103 | 389.55×103 | 124.34×103 |
| **100 fF** | 708.68×103 | 466.52×103 | 319.09×103 |

**(ii) Fall Power (in nW)**

**Related pin A**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 339.58×103 | 245.51×103 | 74.68×103 |
| **10 fF** | 593.35×103 | 433.21×103 | 137.05×103 |
| **100 fF** | 1059.69×103 | 739.64×103 | 421.02×103 |

**Related pin B**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 877.52×103 | 409.89×103 | 68.15×103 |
| **10 fF** | 1102.91×103 | 612.16×103 | 126.78×103 |
| **100 fF** | 1431.54×103 | 1005.32×103 | 347.11×103 |