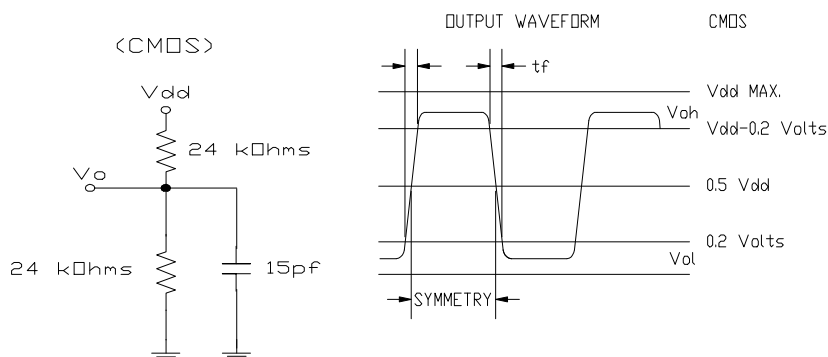




Continued

CMOS Compatible SJ-1430 Series

| Operating Conditions and Output Characteristics | | | | |
|---|--|----------------------------------|----------------|------------------------------|
| | PARAMETER | CONDITIONS | MINIMUM | MAXIMUM |
| General Characteristics | Supply voltage (V_{DD}) | Supply Breakdown | 4.75V -0.5V | 5.25V 7.0V ⁽¹⁾ |
| | Supply current (I_{DD}) | ----- | 0.0 mA | 60 mA |
| | Output current (I_O) | Low level output current | 0.0 mA | 16.0 mA |
| | Tolerance | User specified | ± 20 ppm | ----- |
| | Operating temperature (T_A) | ----- | 0°C | 70°C |
| | Storage temperature (T_S) | ----- | -55°C | 125°C |
| | Power dissipation (P_D) | ----- | ----- | 315 mW |
| | Lead temperature (T_L) | Soldering, 10 sec. | ----- | 300°C |
| | | | | |
| Output Characteristics | Frequency | ----- | 80.0MHz | 125.0MHz |
| | Symmetry | CMOS, @0.5 V_{DD} | 40/60% | 60/40% ⁽²⁾ |
| | Logic 0 (V_{OL}) | CMOS, driving equivalent load | ----- | 0.2V |
| | Logic 1 (V_{OH}) | CMOS, driving equivalent load | $V_{DD}-0.2V$ | ----- |
| | Logic 0 (I_{OL} sink) | CMOS, driving equivalent load | ----- | 600 μ A |
| | Logic 1 (I_{OH} source) | CMOS, driving equivalent load | ----- | 600 μ A |
| | Rise & fall time (t_r, t_f) | CMOS @ 10-90% V_{DD} | ----- | 4 ns |
| | 3-state enable/disable (T_{p2}) | ----- | ----- | 5 ms |
| | Footnote: ⁽¹⁾ Over voltage causes the oscillator to draw extreme current, and damage occurs ⁽²⁾ 45/55% symmetry available upon request | | | |



This information has been carefully prepared and is believed to be entirely reliable. However, no responsibility is assumed for inaccuracies. NEL reserves the right to make changes at any time in order to improve design and supply the best product possible.

Specialty Oscillators for Unique Requirements

If the characteristics listed above do not meet your specific requirements, specialty solutions are often available.

For example, if you need better stability, extended temperature range, or tighter symmetry, NEL can provide a SJ-1439 series oscillator to serve your needs.

To let us know your special requirements, complete our **Specialty Oscillator** sheet. We will respond with the desired specialty oscillator, or discuss with you a solution that most closely meets your needs.