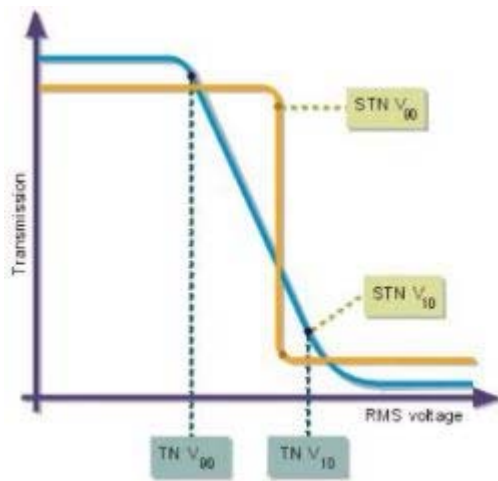




STN



STN – Super Twisted Nematic. A high information content LCD that uses adjustable interference of two optical modes to achieve a large number of multiplexed lines, higher contrast and higher level of grey scale. It results in the birefringence mode. An improved twisted nematic fluid (200° twist or greater), which has better contrast and optimum viewing range than standard twisted nematic.

The graph shows a comparison of a voltage versus transmitted light curve of a typical TN and a supertwist nematic (STN) display. (Generally, a greater twist angle equates to higher multiplexability.) The V90 and V10 points on the graph indicate the voltages that yield 90 percent and 10 percent light transmission, respectively.

FEATURES:

- Backgrounds: Yellow-Green, Grey, Blue
- Viewing Angle: 75 (typical), 90 (maximum) degrees
- Multiplex Ratio: up to 480:1
- Response Time: 250 msec at 4.5V (lower than TN)
- Suitable for Graphic applications

As the figure shows, STN displays have a steeper curve than TN displays, which allows higher multiplex levels for STN displays. (STN's were developed primarily to overcome the difficulties encountered in multiplexing TN displays.)

The multiplex rate is equal to the number of rows that can be displayed simultaneously. For example, a display with a multiplex rate of 400 can display 400 rows of information simultaneously.

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