

LIQUID CRYSTAL SHUTTER — VARIABLE DENSITY FILTER

Product Specification Sheet



| <u>% Duty Cycle</u> | <u>% Transmission</u> | | | |
|---------------------|-----------------------|-------------|-------------|-------------|
| <u>Device Mode</u> | <u>Per PT-Cell</u> | <u>Min.</u> | <u>Typ.</u> | <u>Max.</u> |
| 100% | 50 | 14.0 | 18.0 | 23.0 |
| 50% | 75 | 5.3 | 7.0 | 8.7 |
| 0% | 100 | — | 0.7 | 1.0 |

The variation from maximum to minimum conditins eprents a +2 variation. This converts to +0.35 f stops.

ELECTRICAL DRIVE REQUIREMENTS:

| Characteristics | MIN | TYP | MAX | UNITS |
|---------------------|-----------|-----|-----|--------|
| Pk-Pk Volts (on) | 20 | 24 | 60 | Volts |
| Pk-Pk Volts (off) | — | 0 | 0.5 | Volts |
| Drive Frequency | 1.0 | 2.0 | 4.0 | KHz |
| ON Duration | CONTINUUS | | | mSec |
| OFF Duration | — | 5 | 12 | mSec |
| Long-Term DC Offset | — | — | 50 | mVolts |
| Duty Cycle | 10 | 50 | — | % |

TEST SETUP:

Jumper 1 (yellow) and 3 (red). Jumper 2 (orange) and 4 (black). Drive with 24V @ 50mA, p-p square or sine wave. PW as low as 40 mS (up to 8KHz).