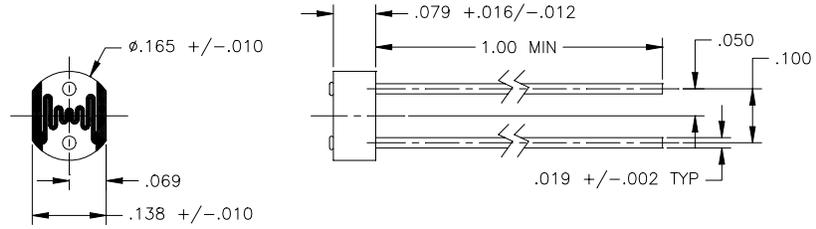


# CL9P5LQ

## Epoxy-encapsulated Photoconductors (Replaces the CL9P5L)



November, 2003



Pattern shown is typical and may vary from part to part.

ALL DIMENSIONS ARE IN INCHES

### features

- thicker ceramic substrate
- low cost epoxy encapsulation

### description

The CL9P5LQ consists of CdS base material deposited on a ceramic substrate and epoxy encapsulated. The CL9P5LQ is electrically equivalent to, and replaces, the CL9P5L and CL905L. For applications assistance, call Clairex.

### absolute maximum ratings ( $T_A = 25^\circ\text{C}$ unless otherwise stated)

storage and operating temperature .....  $-50^\circ\text{C}$  to  $+75^\circ\text{C}$   
lead soldering temperature<sup>(1)</sup> .....  $260^\circ\text{C}$   
power dissipation at  $25^\circ\text{C}$  air temperature ..... 50mW

### notes:

1. 0.06" (1.5mm) from the case for 5 seconds maximum.
2. The CL9P5LQ has a 0.079" thick substrate and 1.0" minimum length leads. The CL9P5L had a 0.055" thick substrate and 1.4" minimum length leads.

### electrical characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Part Number	Material Type	$R_{ON}^{(1)(2)}$ $\Omega(\text{typ})$	$R_{OFF}^{(3)}$ $\Omega(\text{min.})$	$V_{\text{meas}}^{(4)}$ Volts	$V_{(\text{max})}$ Volts
CL9P5LQ	CdS, CdSe	10K	670K	10	100

- notes:**
1. On-resistance ( $R_{ON}$ ) is measured at 2 ft-c after light stabilization at 30 ft-c for 16 hours minimum just prior to test.  $R_{ON}$  tolerance is  $\pm 33\%$  at 2 ft-c.
  2. Light source for all  $R_{ON}$  measurements is an unfiltered tungsten source operating at a color temperature of 2854K.
  3. Off-resistance ( $R_{OFF}$ ) is measured under dark conditions, 5 seconds after  $R_{ON}$  test. A dark condition is reached when the value of  $R_{OFF}$  can not be increased by further irradiation shielding.
  4. Measurement voltage ( $V_{\text{meas}}$ ) is the steady-state bias applied to the device for measurement of  $R_{ON}$  and  $R_{OFF}$ .

Clairex reserves the right to make changes at any time to improve design and to provide the best possible product.

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