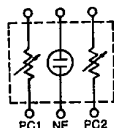
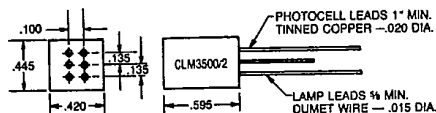


T-41-81

CLM3500/2

Neon Photoconductor Isolators



CLM3500/2 — Similar to the CLM3500 but features 2 isolated photocells output. Application: Tandem connection for 2 channel control and remote indication. Fast photocell response with minimum resistance modulation for AC to digital conversion and photo-chopper application.

TECHNICAL DATA

NEON LAMP	CHARACTERISTICS	TEST CONDITIONS	CLM 3500/2			UNITS
			Min.	Typ.	Max.	
RATING (4)				105-125		volts AC
V_i (1)	Initial breakdown			135		volts DC
V_m	Initial maintaining			75		volts DC
PHOTOCELL V_{MAX}	Cell voltage				100	volts DC or PAC
P	Power dissipation	25°C			60	milliwatts
PHOTOMOD R_{ON} (1)(2)(5)	On resistance				500	ohms
R_{OFF} (5)	Off resistance	10 sec. after $I_F \rightarrow 0$ 4 VDC on cell			1000	ohms
t_R (3)	Rise time	time to 63% of final condition at $I_F = 1.2mA$		16		milliseconds
t_D	Decay time	Time to 100K		350		milliseconds
V_{BD}	Isolation		1600			volts DC or PAC
dRc/dt	Cell temperature coefficient	$I_F \geq 1mA$		1		%/°C

Absolute Maximum Ratings:

Temperature Storage — 40°C to 75°C

Operating — Derate power to 0 at 75°C

NOTES:

- (1) Data taken after > 96 hrs. dark + 1 min. ON.
- (2) 120V through 47K Ω series resistor applied to lamp.
- (3) Lamp currents below 1mA are not recommended.
- (4) Max. initial breakdown voltage 95V AC. For DC operation use mon. of 150V DC.
- (5) Each element

T-41-81

