

CCD\_TCD1209DG.md

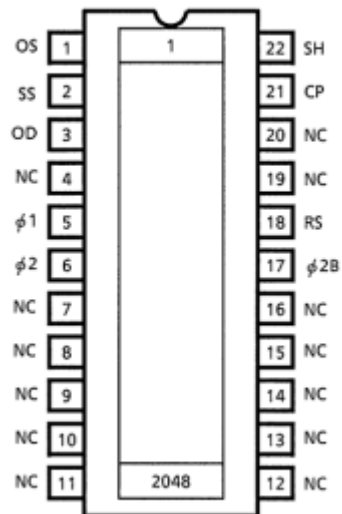
# CCD - TCD1209DG

## pinout

TCD chip requires:

- 12V for power
- max power dissipation: 400mW = 0.4W
  - $\therefore P = V * I = I^2 * R \therefore I = P / V \rightarrow 0.4/12 = 0.03333 \text{ A max current draw}$

### Pin Connections (top view)



## Pin Names

Pin No.	Symbol	Name	Pin No.	Symbol	Name
1	OS	Output signal	22	SH	Shift gate
2	SS	Ground	21	CP	Clamp gate
3	OD	Power supply	20	NC	Non connection
4	NC	Non connection	19	NC	Non connection
5	$\phi 1$	Transfer clock (phase 1)	18	RS	Reset gate
6	$\phi 2$	Transfer clock (phase 2)	17	$\phi 2B$	Last stage transfer clock (phase 2)
7	NC	Non connection	16	NC	Non connection
8	NC	Non connection	15	NC	Non connection
9	NC	Non connection	14	NC	Non connection
10	NC	Non connection	13	NC	Non connection
11	NC	Non connection	12	NC	Non connection

# ARDUINO NANO PINOUT

