



PHTU21D – Smart and digital humidity and temperature sensor

PRODUCT DESCRIPTION PHTU21D

Since it is in most cases quite troublesome to solder the DFN-(Dual Flats No Leads) housing in reflow process for the testing and the assembly of samples of the HUT21D, therefore the PHTU21D was designed.

It consists of a printed circuit board with a 4-pole pin strip, the HTU21D and a decoupling capacitor between VDD and GND.

Using the plug connection of the relevant pin strip the relative humidity and temperature can be calculated with the help of a micro processor and the appropriate Software.

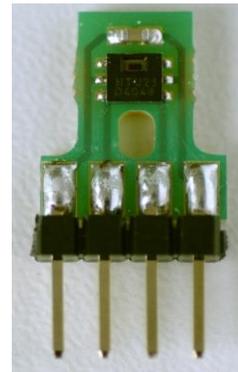


Figure 1: PHTU21D

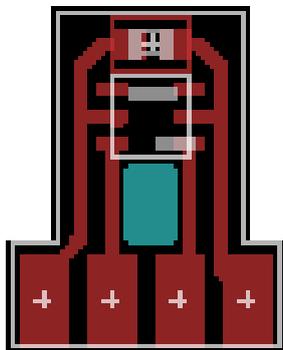


Figure 2: PHTU21D Layout
Outer dimension: 10.1mm x 12.94mm

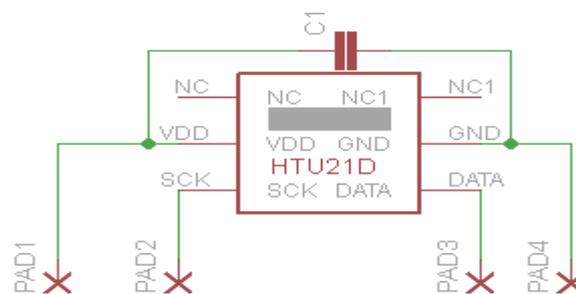


Figure 3: PHTU21D Circuit diagram

Sensor	HTU21D	Humidity and temperature
Capacitor C1	0603; ±10%, X7R	100nF
Pin Strip 4-pole	RM 2.54	Single-row, straight

Table 1: Assembly list