ZANE PCB | tlhIngan Hol

Klingon fan adaptation with English glosses.
For fun, not a verified technical translation. Not a calibrated instrument.

pagh

naDev yltagh!

Start here! Zero is at the corner; the first tick is 1 mm.

SMD 'ay'mey

'ay'mey tlnuD!

Inspect the components! Check their polarity marks. The footprint beside the IC is for a crystal.

yor

naDev 'ay'mey tlan!

Place the components here! The main assembly side.

'ul Hemey

Hemey tlnuD!

Inspect the paths! Trace widths: 0.15-1 mm, with and without solder mask.

qungmey

qungmey tlnuD!

Inspect the holes! These are plated. The 0.3 mm size is a common fabrication option.

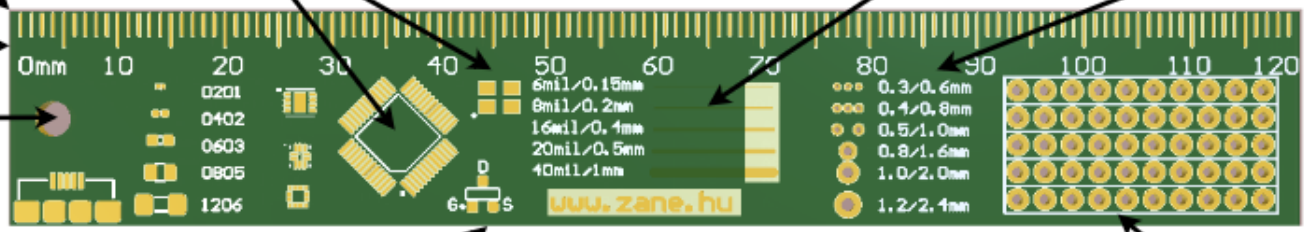
mm yljuv!

NPTH

qungvam ylnuD!

Inspect this hole! This one has no metal plating.

Micro-USB



'ay'Hommey

mach 'ay'meyvam.

These components are small. Compare footprints from 0201 to 1206.

nochmey

mach nochmey. 'ach lI'.

The sensors are small. But useful. Tiny packages for sensing the world.

BSS138

Qaghwlj vlqaw. Qaghlj ylqaw!

I remember my mistake. Remember yours! A tribute to our troublesome SOT-23 footprint.

pongmey

pongmey tlghItlh!

Write the names! Clear identifiers help the next engineer. Memory is not a marking system.

ylwaH!

'ul gho ylchenmoH!

Build a circuit! This small prototyping area can hold a real circuit. Make it worthy of your project.

pIrmuS

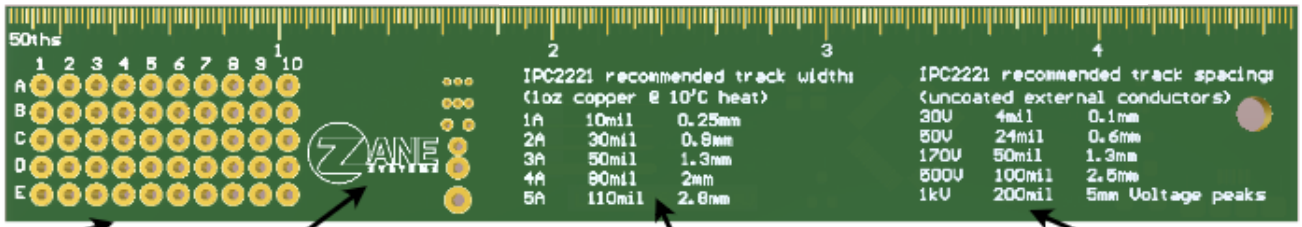
naDev je 'ay'mey tlan!

Place components here too! The underside supports double-sided assembly.

mil yljuv!

tera' juvmeH mIwmey!

Earth measuring methods! 1 mil = 0.001 inch. Still used in electronics.



100 mil

chuq yljuv!

Measure the distance! Hole pitch: 100 mil (2.54 mm).

Rows and columns are labelled on the underside.

Deghmey

Deghlij ylcha'!

Display your emblem! Logos and graphics belong on PCBs too.

qungmey

bIvangpa', ylQub!

Think before you act! Allow for soldering, hole spacing and the finished diameter after plating.

HoS ylSeH!

wej yllo'! wa'DIch ylnuD!

Do not use it yet! Inspect it first! Read the current table and its stated conditions before choosing trace width.

chuq

chuq ylbuS!

Focus on the distance! Check the voltage and conditions in the spacing table. Leave room between conductors.