

**Quad Flat Package (QFP)
DIP or PGA Adapters**

**DIP or PGA ADAPTER
MODULES
ELIMINATE THE
NEED TO
REDESIGN
MOTHERBOARDS
OR MAY BE USED
FOR
BREADBOARD
PROTOTYPING**

DESCRIPTION

This new family of Accutek QFP Adapter Modules converts surface mount IC's to pin compatible DIP packages for creating drop-in replacements for end-of-life DIP IC's. Package types supported are: QFP (Quad Flat Package).

These Adapters were developed for users with motherboard designs that require DIP's, now obsolete by manufacturers. These adapter modules save costly motherboard redesigns.

Available with machined or flat stamped contact pins. Accutek Adapter Modules feature 32 to 208 pins, are fully assembled and tested and may include a decoupling capacitor. These Adapters can be manufactured turnkey or from customer supplied surface mount IC's. Modules range in length from 1.600" to 5.00" depending on number of pins, and incorporate 0.300", 0.600" and 0.900" row-to-row spacing with 0.100" lead spacing. Some adapters are square Pin Grid Arrays (PGS'a).

Custom configurations up to 300 pins, multi-chip and double sided modules are also available for special functions. A variety of pin lengths with varying diameters as well as custom sizes and spacing can be specified with different materials and finishes. All modules are designed in-house using PCB CAD workstations. Automated assembly and 100% testing are also performed in-house.

FEATURES

- Saves costly redesign of current motherboards
- Fully tested with lifetime limited warranty
- May include an on board decoupling capacitor
- IC assembly and testing available
- EPROM and Flash programming available
- Custom lead lengths available
- Custom multi-chip and double-sided modules available

ORDERING OPTIONS

- Adapter only
- Customer supplies chips - Accutek assembles on Accutek adapters, tests and delivers finished product in antistatic tubes.
- Complete turnkey - Accutek purchases IC's and passives. Then assembles, tests and delivers finished product in antistatic tubes.



5 NEW PASTURE ROAD
NEWBURYPORT, MA 01950-4040
PHONE: 978-465-6200 FAX: 978-462-3396
Email: sales@accutekmicro.com
Internet: www.accutekmicro.com

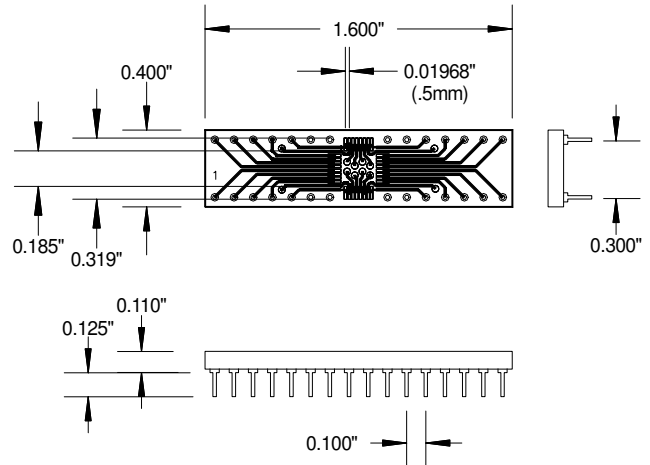
We can assemble your chips on to our adapter boards. Fully automated assembly and test at our Newburyport, Massachusetts facility.



No job to large or small.

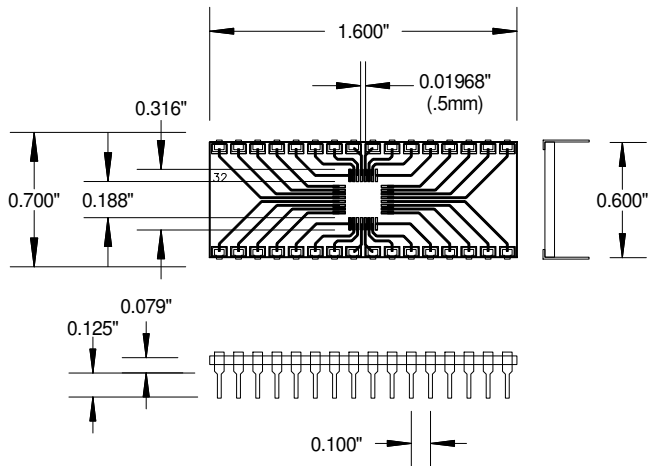
AK32D300-QFP5X5

32 PIN QFP 5x5mm TO DIP300



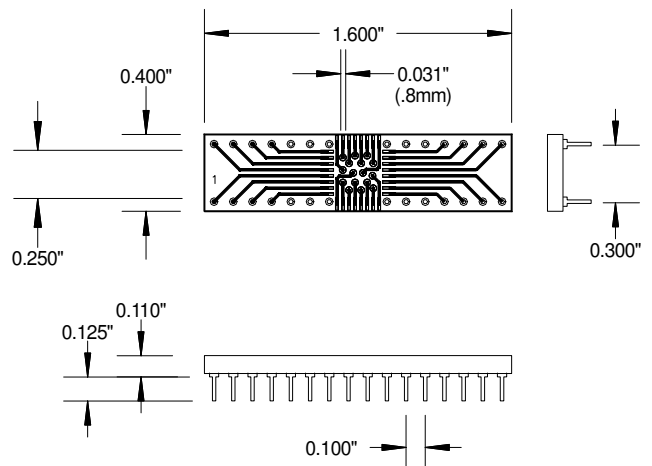
AK32D600-QFP5X5

32 PIN 0.5mm PITCH QFP 5x5mm TO DIP600



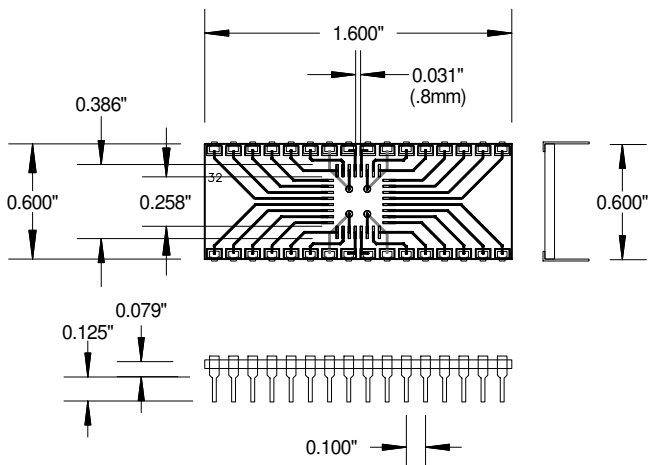
AK32D300-QFP7X7

32 PIN QFP 7x7mm TO DIP300



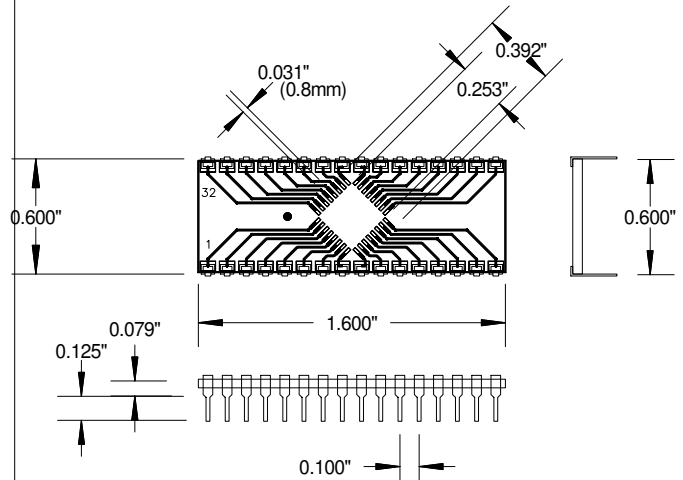
AK32D600-QFP7X7

32 PIN 0.8mm PITCH QFP 7x7mm TO DIP600



AK32D600-QFP7X7-A1-1

32 PIN 0.8mm PITCH QFP 7x7mm TO DIP600



Technical drawing of a 44-pin connector assembly, showing top, side, and detail views with dimensions in inches and millimeters.

Top View Dimensions:

- Overall width: 2.200"
- Pin pitch (center-to-center): 0.5mm
- Pin height (from base): 0.426"
- Pin height (from base): 0.298"
- Pin height (from base): 0.070"
- Pin height (from base): 0.125"
- Pin height (from base): 0.100"

Side View Dimensions:

- Overall height: 0.700"
- Pin height (from base): 0.600"

Detail View Dimensions:

- Pin pitch (center-to-center): 0.100"

Technical drawing of a microchip carrier, showing top, side, and detail views with dimensions in inches and millimeters.

Top View Dimensions:

- Overall width: 2.200"
- Overall height: 0.700"
- Pin pitch (horizontal): 0.100"
- Pin pitch (vertical): 0.070"
- Pin diameter: 0.025" (0.65mm)
- Carrier body width (excluding pins): 0.350"
- Carrier body height (excluding pins): 0.494"

Side View Dimensions:

- Carrier body height: 0.600"

Detail View:

- Shows the carrier body with pins and the microchip carrier assembly.

0x10

H

2.200"

0.8mm
(0.031")

0.552"

0.408"

44

0.700"

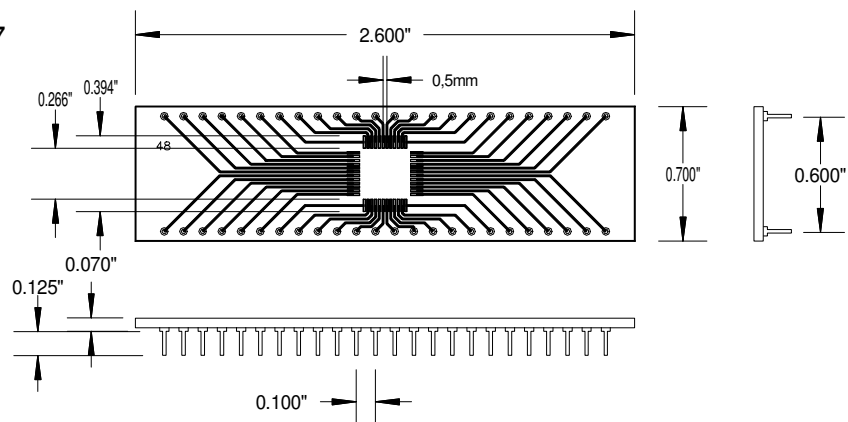
0.600"

0.070"

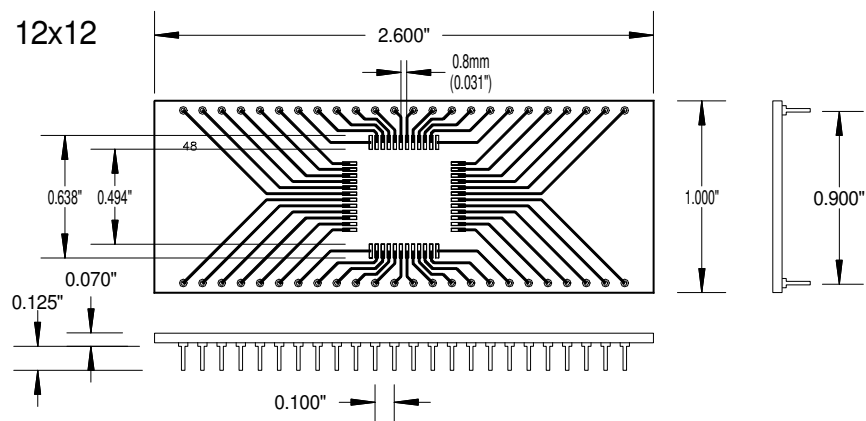
0.125"

0.100"

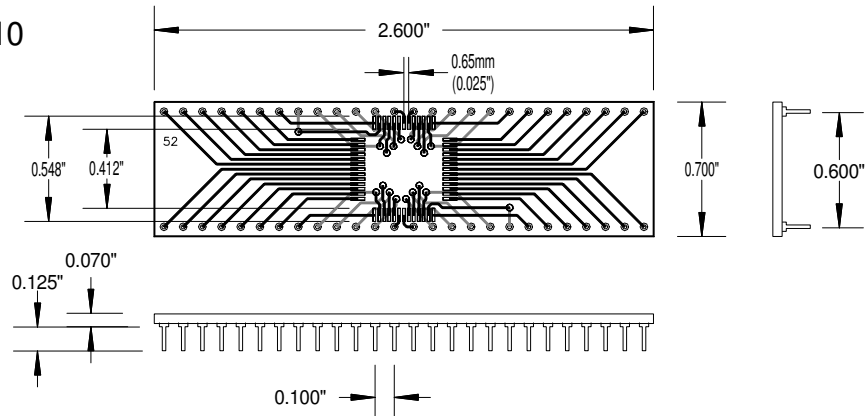
AK48D600-QFP .5mm 7x7
7x7 QFP .5mm PITCH
TO 48 PIN DIP



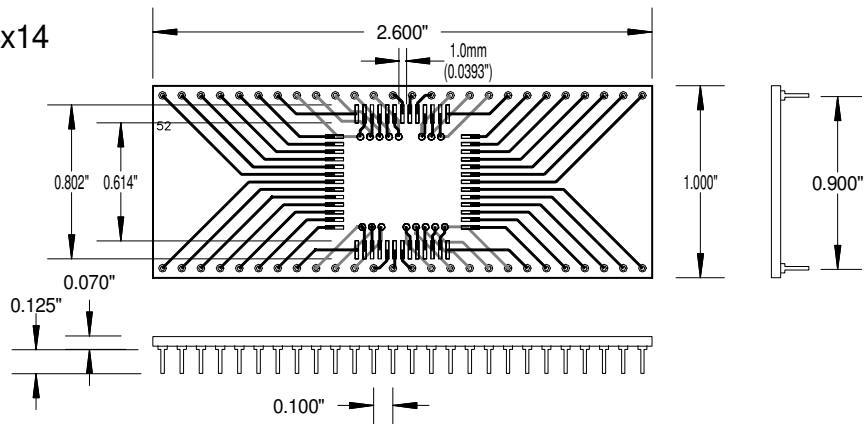
AK48D900-QFP .8mm 12x12
QFP 0.8mm PITCH
TO 48 PIN DIP



AK52D600-QFP .65mm 10x10
10x10 QFP .65mm PITCH
TO 52 PIN DIP

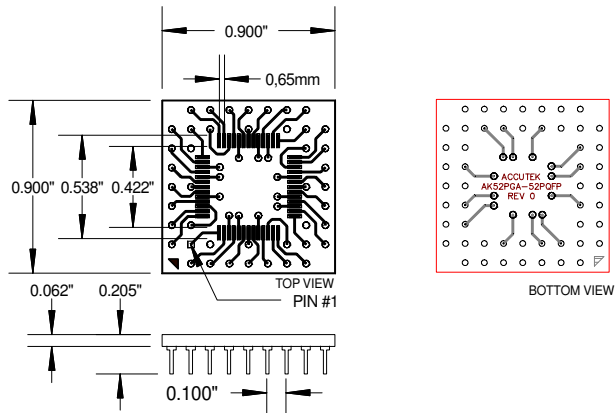


AK52D900-QFP 1.0mm 14x14
QFP 1.0mm PITCH
TO 52 PIN DIP



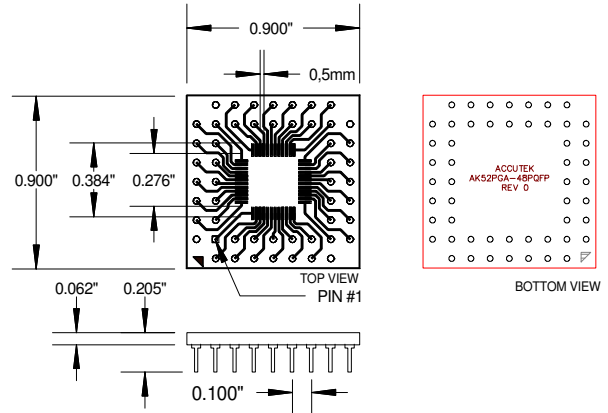
AK52PGA-52PQFP

52 PIN PQFP TO PIN GRID ARRAY

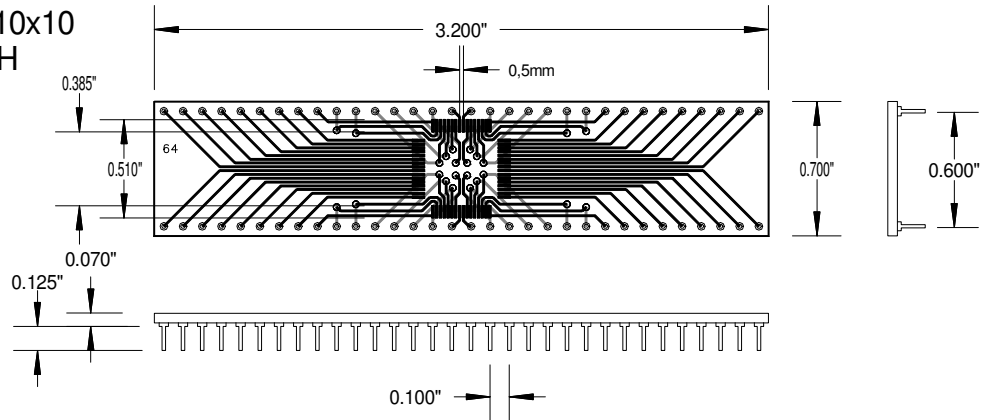


AK52PGA-48PQFP

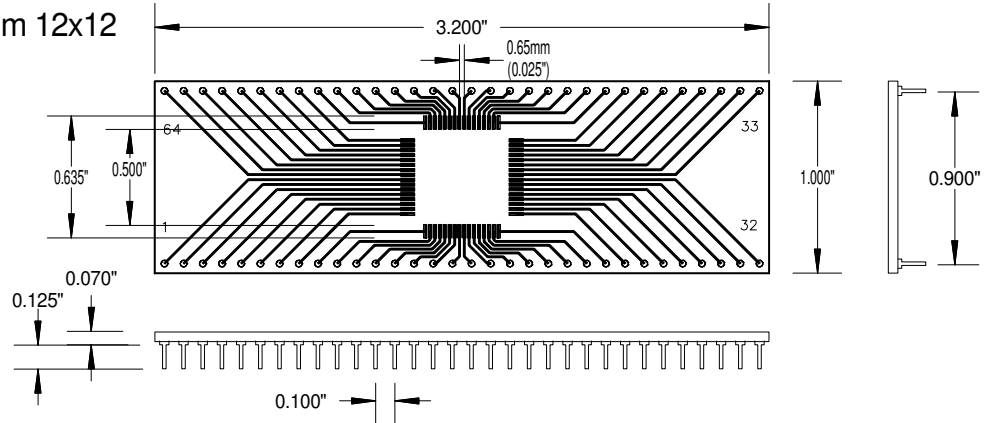
48 PIN PQFP TO 52 PIN GRID ARRAY



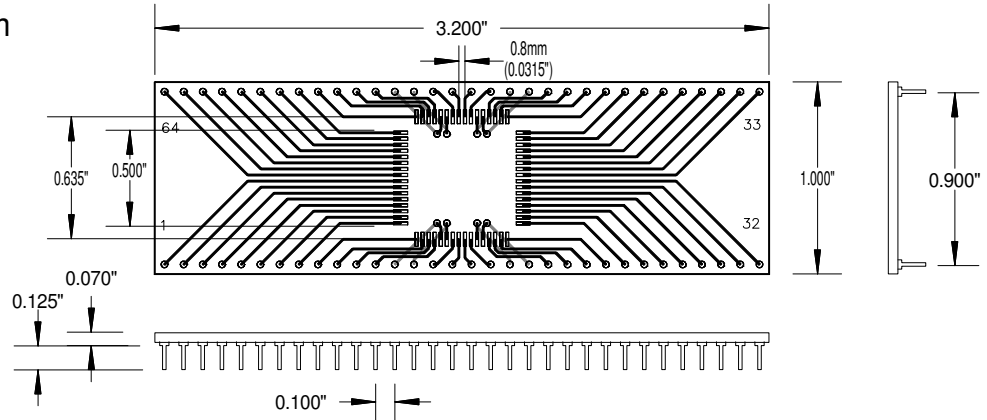
AK64D600-QFP .5mm 10x10 10x10 QFP .5mm PITCH TO 64 PIN DIP



AK64D900-QFP .65mm 12x12 QFP 0.65mm PITCH TO 64 PIN DIP



AK64D900-QFP .8mm QFP 0.8mm PITCH TO 64 PIN DIP



Technical drawing of a 9x9 microarray chip. The chip is rectangular with a central diamond-shaped region. The overall dimensions are 3.200" wide and 1.000" high. The chip features 64 input/output pins on the left side, labeled 1 to 64. The right side has 32 pins, labeled 32 to 33. The top edge has 33 pins, labeled 33 to 32. The bottom edge has 32 pins, labeled 32 to 33. The chip is divided into four quadrants by a central diamond-shaped region. The dimensions of the quadrants are 0.322" and 0.387". The chip is mounted on a carrier with a 0.100" pitch. The carrier has a 0.125" pitch for the top pins and a 0.070" pitch for the bottom pins. The chip is labeled 9x9 in the top left corner.

Technical drawing of a microchip package showing top and side views with dimensions.

Top View Dimensions:

- Overall width: 4.000"
- Overall height: 0.900"
- Pin pitch (bottom): 0.100"
- Pin height (bottom): 0.126"
- Internal width segments: 0.590" and 0.460"
- Central feature width: 0.5mm
- Central feature label: 80

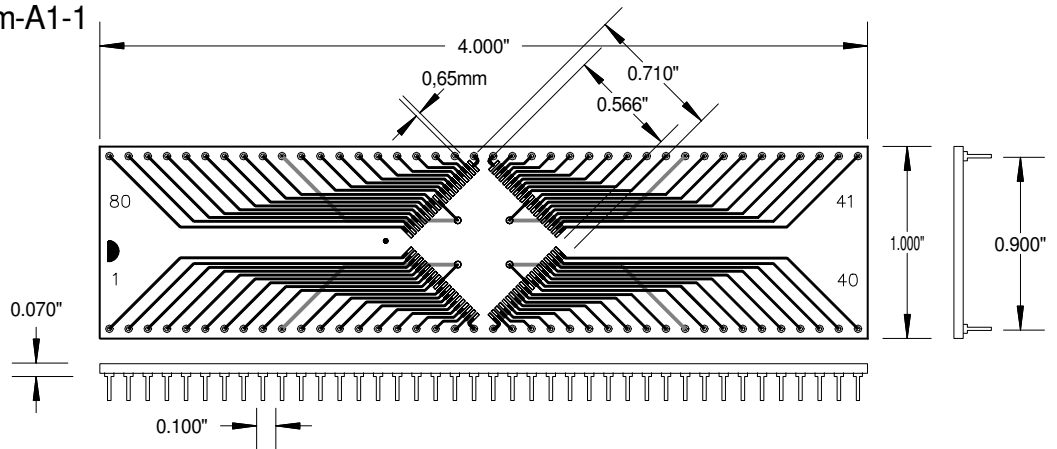
Side View Dimensions:

- Package height: 0.126"

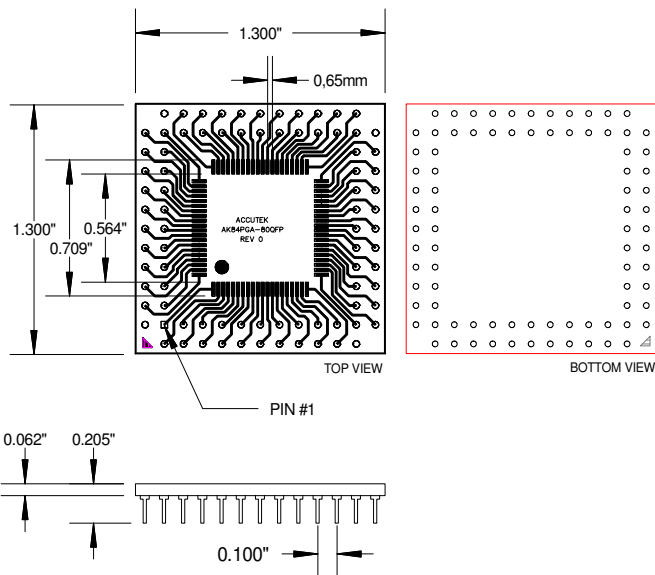
Other Labels:

- 5mm CH (top left)

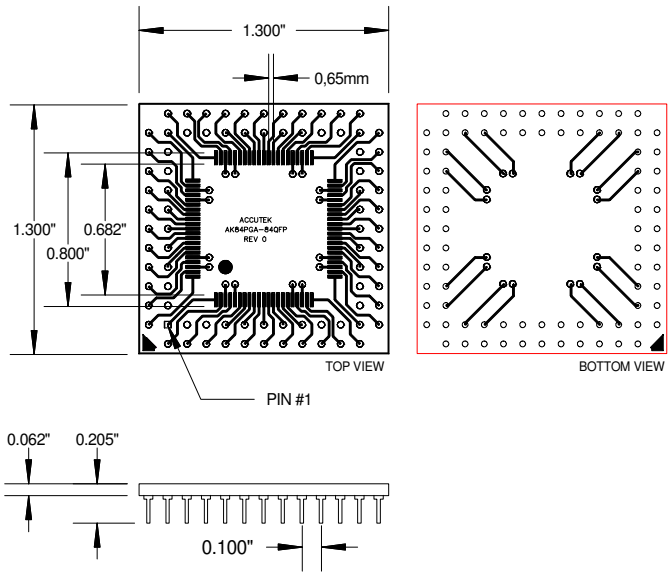
AK80D900-QFP.65mm-A1-1
QFP 0.65mm PITCH
TO 80 PIN DIP



AK84PGA-80QFP
80 PIN QFP TO 84 PIN GRID ARRAY

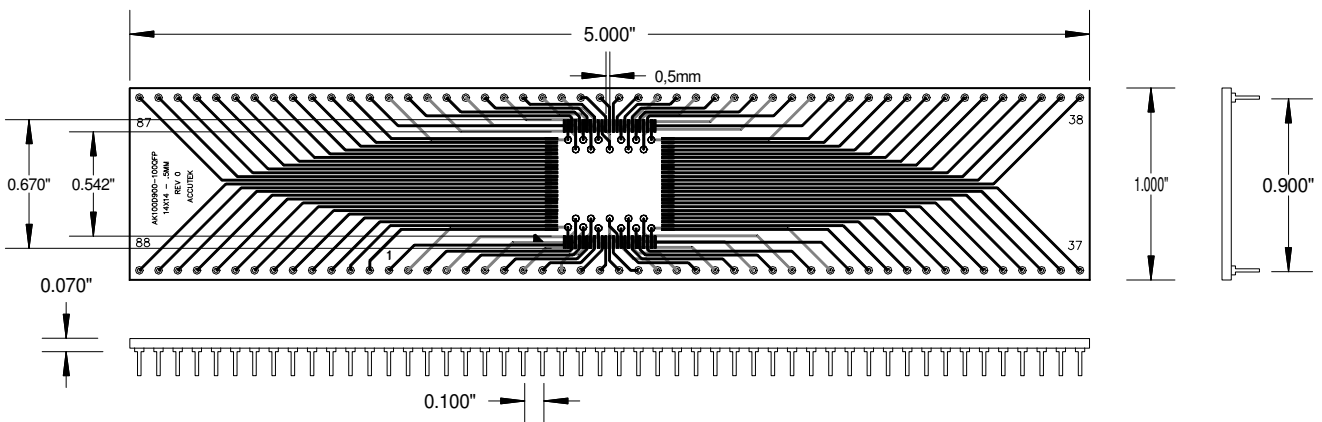


AK84PGA-84QFP
84 PIN QFP TO 84 PIN GRID ARRAY



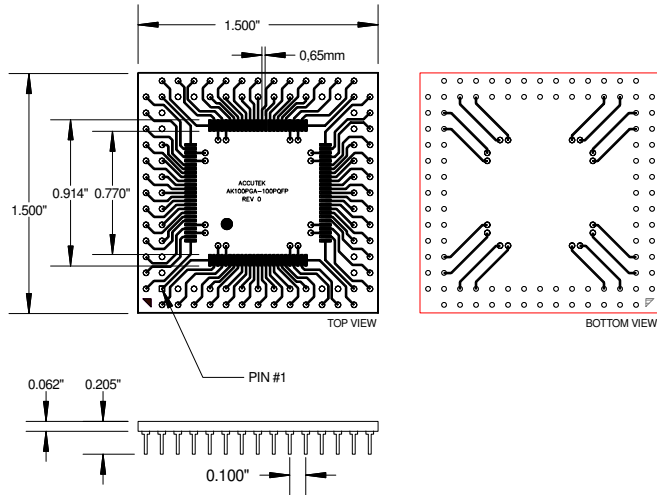
AK100D900-100QFP .5mm 14x14
100 PIN QFP 0.5mm PITCH
TO 100 PIN DIP

AK100D900-100QFP.5-14x14



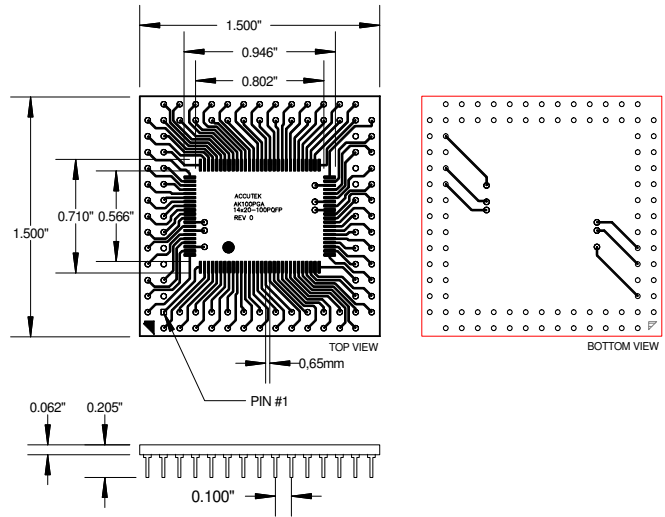
AK100PGA-100PQFP.65MM

100 PIN .65MM PITCH PQFP TO PIN GRID ARRAY



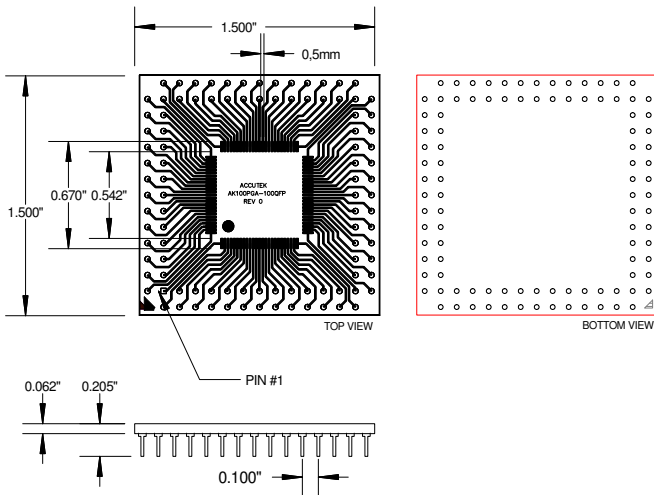
AK100PGA-14x20-100PQFP

100 PIN 14x20 0.65MM PITCH PQFP TO PIN GRID ARRAY



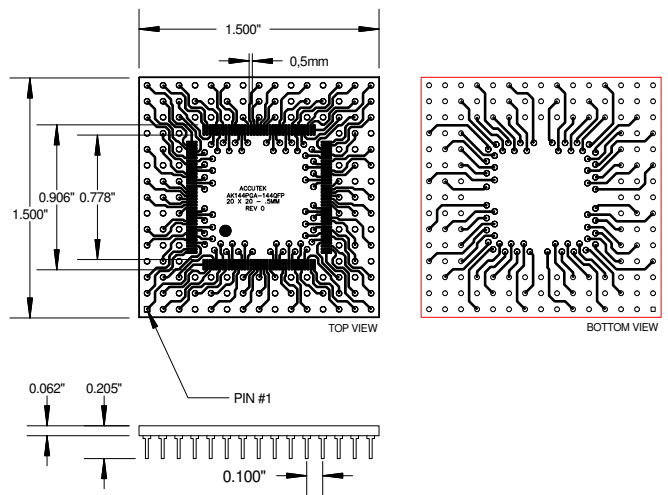
AK100PGA-100QFP.5MM 14X14

100 PIN 14 x 14 0.5MM PITCH QFP TO PIN GRID ARRAY



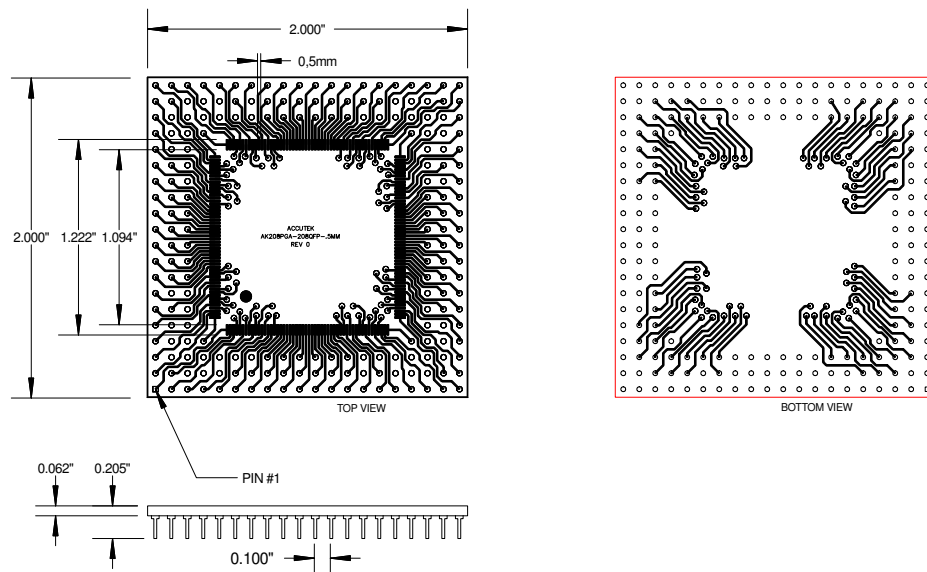
AK144PGA-144QFP.5MM 20x20

144 PIN 20x20 0.5MM PITCH QFP TO PIN GRID ARRAY



AK208PGA-208QFP.5MM

208 PIN .5MM QFP TO PIN GRID ARRAY



SPECIAL APPLICATION ADAPTERS

160 PIN PGA BOARD
(for attachment of 160 Pin PQFP
Microprocessor Chips)

