

# PA44-40-31Q03 Data Sheet

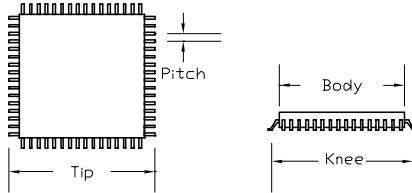
44 pin QFP socket/40 pin DIP 0.6" plug

## Supported Device/Footprints

This adapter allows programming of several QFP devices in their DIP footprint. A partial list is:

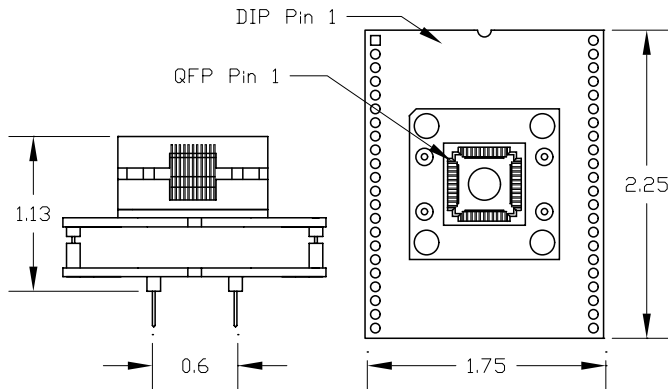
| Mfgr     | Device        |         | Footprint |            |
|----------|---------------|---------|-----------|------------|
|          | Device        | Package | Device    | Plug       |
| National | COP8SAA744VEJ | QFP     | same      | 40 Pin DIP |
| "        | COP8SAB744VEJ | "       | same      | "          |
| "        | COP8SAC744VEJ | "       | same      | "          |

The QFP socket accepts packages with the dimensions listed below:



| Socket          | Body        | Knee                     | Tip                      | Pitch  |
|-----------------|-------------|--------------------------|--------------------------|--------|
| 44QF-03<br>PQFP | 10.0 mm typ | 11 mm typ<br>11.3 mm max | 12 mm typ<br>12.8 mm max | 0.8 mm |

## Adapter Dimensions



PA44-40-31Q03 is above

## Adapter Parts & Part Numbers

The following chart shows the various socket and board part numbers that make up these adapters.

| Adapter       | Socket  | Top Board | Bottom Board |
|---------------|---------|-----------|--------------|
| PA44040-31Q03 | 44QF-03 | 44QF-03   | 44-40-31     |

## Adapter Construction

The adapter is made up of 3 sub-assemblies. They assemble via connectors making the adapter modular. This way the sub-assemblies can be replaced when they wear out.

When disassembling the adapter take care not to bend the pins. When reassembling the adapter note the pin 1 indicators to align the parts correctly.

### Test Socket

QFP test socket:

Enplas Part #: OTQ-44 0.8 03

LSC Part #: 44QF-03

### 44QF-03

Accepts the test socket and connects to the bottom board using a pair of headers. The headers pins are numbered with the PLCC package pin numbers of this device.

### 44-40-31

Performs the wiring shown in the Adapter Wiring section. Header pins 21, 22, 23 and 24 are skipped.

## Adapter Wiring

The following chart shows the connections from the QFP device to the adapter's DIP plug. QFP pins 15, 16, 17 and 18 are skipped.

| DEVICE | PLUG | DEVICE | PLUG |
|--------|------|--------|------|
| 1      | 7    | 23     | 25   |
| 2      | 8    | 24     | 26   |
| 3      | 9    | 25     | 27   |
| 4      | 10   | 26     | 28   |
| 5      | 11   | 27     | 29   |
| 6      | 12   | 28     | 30   |
| 7      | 13   | 29     | 31   |
| 8      | 14   | 30     | 32   |
| 9      | 15   | 31     | 33   |
| 10     | 16   | 32     | 34   |
| 11     | 17   | 33     | 35   |
| 12     | 18   | 34     | 36   |
| 13     | 19   | 35     | 37   |
| 14     | 20   | 36     | 38   |
| 15     | N/C  | 37     | 39   |
| 16     | N/C  | 38     | 40   |
| 17     | N/C  | 39     | 1    |
| 18     | N/C  | 40     | 2    |
| 19     | 21   | 41     | 3    |
| 20     | 22   | 42     | 4    |
| 21     | 23   | 43     | 5    |
| 22     | 24   | 44     | 6    |



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