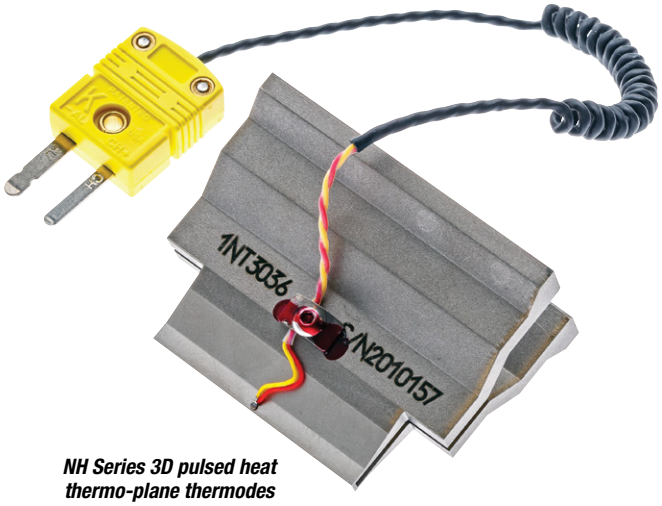
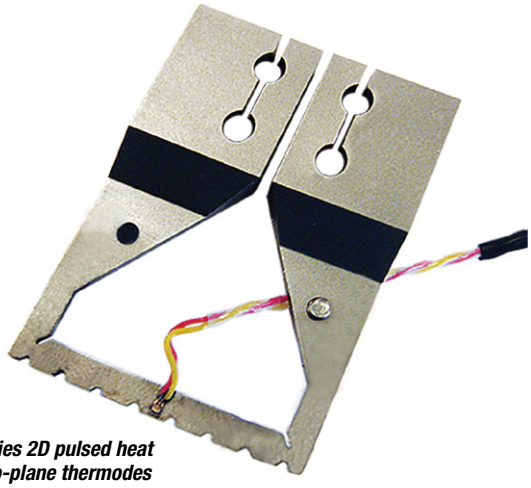



*NH Series 3D pulsed heat thermo-plane thermodes*



*NH Series 2D pulsed heat thermo-plane thermodes*

# NH Series

## Pulsed Heat Thermodes

The NH Series thermode design offers ultra-fast heating and cooling cycles, minimizing process times. Forced air-cooling after the heating process further speeds the total bonding process.

The thermode is designed to maintain co-planarity and withstand deformation resulting from the high forces that may be necessary in some bonding processes.

3D – the current flows from front to back of the thermode and therefore reduces voltage drop.

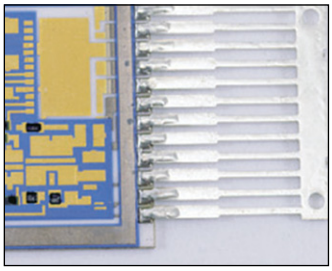
2D – the current flows left to right which can cause voltage drop across the face of the thermode and cause problems with voltage.

Wire soldering, ACF bonding, heat-sealing and heat staking processes require their own specific thermode configurations based on product size, shape and configuration. AMADA WELD TECH offers a full range of standard as well as custom designs.

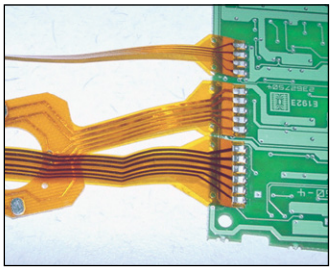
### KEY FEATURES

- Robust design for high force applications and perfect bond planarity
- 3D thermodes can also be used for low force applications• Fast heating and forced air cooling for minimum process cycle times
- Thermode adapter block for easy and fast exchange of thermodes without re-adjustment
- 3D design eliminates voltage drop on products

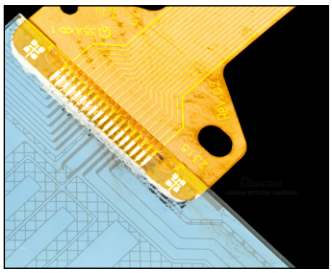
### TYPICAL APPLICATIONS



*2D thermo-plane thermode application wire soldering*



*3D thermo-plane thermode application flex soldering*



*3D thermode application bonding flex to glass*



*Heat stake thermode application*

## TECHNICAL SPECIFICATIONS

| 2D Pulsed Heat Thermode | | | | |
|---|---|---|---|---|
| **Length** | **Width** | **Thermode Adapter Block** | **TC-Type** | **Specify Thermode for order purpose** |
| 5 - 50 mm | 1 - 3 mm | 0NH5001 | K-type | Width x Length (mm) / custom design |

| 3D Pulsed Heat Thermo-plane Thermode | | | | |
|---|---|---|---|---|
| **Length** | **Width** | **Thermode Adapter Block** | **TC-type** | **Specify Thermode for order purpose** |
| 1 - 75 mm | 1 - 4 mm | 0NH5002 | K-type | Width x Length (mm) |
| Reflow soldering area: 1-300 mm2 bond surface. Taking into account maximum bond force defined by actual bond head (80 - 750 N / 18 - 169 lb) | | | | |

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