

DUAL IN-LINE PACKAGES (DIPS)

component body type most associated with printed wiring assemblies (PWA) using through-hole technology. The DIP body can be either plastic or ceramic with between 6 to 64

See Section 6.01 "Through-Hole Soldering, General Requirements", for common accept /



PREFERRED

The component has been properly oriented and all leads are fully inserted in the termination holes with the lead standoff step in contact with the lands. The component body is undamaged and part markings are legible and visible on top of component body.



ACCEPTABLE PARTIALLY CLINCHED LEADS

The corner leads may be partially clinched outward from the chip body's longitudinal axis to temporarily secure the component. Clinching shall not violate minimum electrical spacing requirements, or adversely affect solderability.

UNACCEPTABLE

IMPROPER ORIENTATION / POLARITY

The DIP has been installed backwards. The

locator notch / dimple, which identifies pin 1 of the



ACCEPTABLE **ORIENTATION / POLARITY**

The component has been properly installed. The locator chip's notch / dimple, which identifies pin 1, is lined up with the silkscreen pattern. A square-shaped solder pad on the printed wiring pattern may also be used to identify pin 1. NASA-STD-8739.3 [8.1.3]

chip, should be lined up to the silkscreen and/or conductive pattern marks.

NASA-STD-8739.3 [13.6.2.a.5]

NASA WORKMANSHIP STANDARDS



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Best Workmanship Practice



minimums, cause the component body to exceed height requirements, or violate minimum electrical spacing requirements.

NASA-STD-8739.3 [8.1], [13.6.1]



may cause the part to exceed maximum height

requirements, or result in violation of minimum

electrical clearance requirements.

NASA-STD-8739.3 [13.6.2.a.21]

UNACCEPTABLE **IMPROPER ORIENTATION / OFFSET**

The component has been incorrectly installed, with the chip offset with respect to the intended termination pattern. This failure is typically caused by insertion of the chip leads into the bypass capacitor mounting holes.

NASA-STD-8739.3 [13.6.2.a.5]



UNACCEPTABLE PISTONED LEAD

The lead has been displaced vertically (pistoned) during insertion. This may be caused by improper lead planarity, an improperly bent lead, or a solder-plugged hole.

NASA-STD-8739.3 [13.6.2.a.7], [13.6.2.a.21]

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UNACCEPTABLE BENT / CURLED LEAD

The lead has been smashed into the pad surface, preventing proper insertion. This may be caused by improper lead planarity, an improperly bent lead, or a solder-plugged hole.

NASA-STD-8739.3 [13.6.2.a.7], [13.6.2.a.21]

