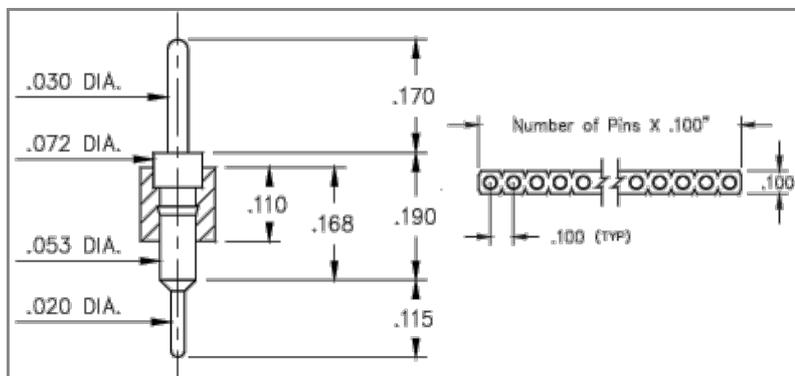


PRODUCT NUMBER: 334-90-142-00-020000



DESCRIPTION

Interconnect Machined Pin Header
 Board Stacking Pin Header
 .030" (0,76mm) Pin Head
Rows: Single Row (1)
Pitch: .100" (2,540mm)
Clip Grid: 00
Pin Window Pattern 020
Plating Code: 90
 Shell: 200 μ" Tin/Lead(93/7) over 100 μ"
 Nickel
Insulator Pin Clip Type: 000
Mounting Type: Through Hole Solder Mount
Insulator Information:
 PCT High Temperature

Pins

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LOOSE PIN/RECEPTACLE USED:

3402 (Brass Alloy)

BRASS ALLOY 360 per ASTM B 16, or 385 per ASTM B455

Properties of BRASS ALLOY 360 ASTM B 16:

- Chemical composition: Cu 63% (max), Pb 3.7% (max)†, Fe .35% (max), Zn remainder
- Temper as machined: H02/H04
- Yield Strength: 25-45 ksi
- Tensile strength: 57-80 ksi
- Hardness as machined: 80-90 Rockwell B
- Electrical conductivity: 26% IACS*
- Melting point: 1000 °C/840 °C (liquidus/solidus)

Properties of BRASS ALLOY 385 ASTM B 455:

- Chemical composition: Cu 60% (max), Pb 3.5% (max)†, Fe .35% (max), Zn remainder
- Temper as machined: H02/H04
- Yield Strength: 16 ksi(min)
- Tensile strength: 48 ksi(min)
- Hardness as machined: 80-90 Rockwell B
- Electrical conductivity: 28% IACS*
- Melting point: 1000 °C/840 °C (liquidus/solidus)

After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal

down to 60 ± 10 RB is recommended for 90° bends, a full anneal down to 35 ± 15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.

Note: Plated Brass parts need a barrier plate to prevent zinc diffusion, $50 \mu\text{m}$ min. nickel or $100 \mu\text{m}$ min. copper is recommended by ASTM B 545 and 579. ASTM B 488 also recommends a $50 \mu\text{m}$ min. nickel barrier plate beneath gold to prevent copper diffusion inherent with all copper alloy products.

†RoHS-2 directive 2011/65/EU, exemption 6c allows up to 4% lead as an alloy agent in copper.

*International Annealed Copper Standard, i.e. as a % of pure copper.

INSULATOR MATERIAL:

PCT Polyester (Injection Molded)

Properties:

- Polyester (30% glass filled), High Temp., (black). Flammability rating UL 94 V-0
- Rated voltage: 100 VRMS/150 VDC
- Insulation resistance: 10,000 Megohms min.
- Material Heat Deflection Temp (per ASTM D 648): 529°F (276°C) @ 66 psi
- Dielectric strength: 1000 VRMS min. (700 VRMS min. for series 117 Shrink DIP)

Note: Materials with HDT above 446°F (230°C) are considered suitable for "eutectic" reflow soldering. For "lead-free" reflow soldering, choose materials with an HDT above 500°F (260°C). PCT is the standard plastic used with RoHS "lead-free" plated pins.

ADDITIONAL NOTES & SPECIFICATIONS

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice. Specifications and tolerances are provided wherever possible. Due to the wide variety of interconnects Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.

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