## Pin Grid Array Socket/Header on 0.100 [2.54] Centers w/Solder Pin Tails

### Features
- Aries offers a wide number of pin grid array configurations from which to choose.
- Low-insertion-force contacts standard.

### General Specifications
- **PGM Series Socket Body**: black UL 94V-0 glass-filled 4/6 Nylon
- **PGG Series Socket Body**: FR-4, 0.062 [1.57] thick
- **Pin Body**: Brass 360 1/2-hard per UNS C36000 ASTM-B16-00
- **Pin Body Plating**: either 200µ [5.08µ] min. Sn per ASTM B545 Type 1 or 100µ [2.54µ] min. 93/7 Sn/Pb per ASTM B545 or 10µ [0.254µ] min. Au per MIL-G-45204 over 100µ [2.54µ] min. Ni per SAE AMS-QQ-N-290
- **6-Fingered Collet Contact**: BeCu per UNS C17200 ASTM-B194-01 (not applicable to Post Style Pin)
- **Contact Plating**: either 100µ [2.54µ] min. Sn per ASTM B545 Type 1 or 100µ [2.54µ] min. 93/7 Sn/Pb per ASTM B545 or 10µ [0.254µ] min. Au per MIL-G-45204 or 30µ [0.762µ] min. heavy Au plating also available
- **Contact Current Rating**: 3 amps
- **Operating Temperature**: -67°F to 221°F [-55°C to 105°C] Sn plating
  - -67°F to 257°F [-55°C to 125°C] Au plating
- **Standard Contact Insertion Force**: 67g/pin
- **Withdrawal Force**: 30g/pin
  - Normal Force: 45g/pin; based on a 0.018 [0.46] dia. test lead
- **Special Ultra-Low Insertion Force**: 22g/pin
- **Withdrawal Force**: 11g/pin
  - Normal Force: 12g/pin; based on a 0.018 [0.46] dia. test lead
- **Accepts Leads**: 0.015-0.026 [0.38-0.66] in dia., from 0.110 [2.79] long min.

### Mounting Considerations
- **Suggested PCB Hole Size**: Solder Tail: 0.030 ±0.002 [0.76 ±0.05] dia.
  - Post Style: 0.028 ±0.002 [0.71 ±0.05] dia.

### Ordering Information
Consult Factory – Aries will assign a special P/N

### Customization
In addition to the standard products shown on this page, Aries specializes in custom design and production. Special materials, platings, sizes, and configurations can be furnished, depending on the quantity. **Note**: Aries reserves the right to change product general specifications without notice.

### All Dimensions: Inches [Millimeters]

### All Tolerances: ±0.005 [0.13] Unless Otherwise Specified

### Basic Dimensions:
- "A SQ MAX" # Pins Per Row x 0.100 [2.54]
- "B" (# Pins Per Row -1) x 0.100 [2.54]

### Additional Configuration Options Include a Cut-Out Window for More Efficient Utilization of Board Space and Better Cooling – Available With or Without Pin Number One Identification Shown Below.

### Consult Factory for Other Sizes and Configurations
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SOLDER TAIL

POST STYLE

ORDERING INFORMATION

XXX-PXX XX XXX-X X

No. of Pins
Series Designator
  PGM = Molded Housing (7x7 thru 18x18)
  PGG = FR-4 Housing (3x3 thru 6x6, 19x19 and above)

Grid Size
Footprint Number (assigned by factory)

Optional Plating
  0 = Au Contact/Sn Shell (Post style all Sn)
  OT = Sn Contact/Sn Shell
  OH = Heavy Au Contact/Sn Shell
  1 = Au Contact/Au Shell (Post style all Au)
  1H = Heavy Au Contact/Au Shell
  * 1U = Au-plated Ultra-low Insertion Force Contact/Au Shell
  * OTL = Au Contact/Sn/Pb Shell
  * OTLT = Sn/Pb Contact & Shell
  * OHTL = Sn/Pb Shell
  * Special Order, Consult Factory

Pin Style
  1 = Solder Pin Tail
  4 = Post Style - 0.025 [0.64] diameter
  5 = Post Style - 0.018 [0.46] diameter

TOP VIEW

SPECIAL FOOTPRINT INSTRUCTIONS:
1. Make a copy of this sheet.
2. Fill in circles for footprint desired using the key below.
3. Fill in the information below, including Style and Plating options.
4. Send to Aries for a prompt quotation.

COMPANY NAME ____________________________
ADDRESS __________________________________
CITY _______________________________________
REQUESTED BY ____________________________
PHONE ___________________________________
DATE ______________________________________
PIN STYLE ____________________________
PIN PLATING ____________________________
  ○ = No pins
  ● = Pins
  ✗ = Plugged holes*

* Plugged holes are for PGA ZIF sockets only. Consult Data Sheets 10004 and 10005 for details.