



**THE DATASHEET OF  
441-PPG21001-10**





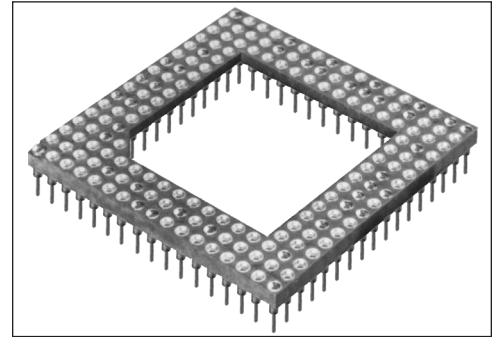
# Pin Grid Array Socket/Header on 0.100 [2.54] Centers w/Solder Pin Tails

## 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 200 $\mu$  [5.08 $\mu$ ] min. Sn per ASTM B545 Type 1 or 200 $\mu$  [5.08 $\mu$ ] min. 93/7 Sn/Pb per ASTM B545 or 10 $\mu$  [0.254 $\mu$ ] min. Au per MIL-G-45204 over 100 $\mu$  [2.54 $\mu$ ] 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 100 $\mu$  [2.54 $\mu$ ] min. Sn per ASTM B545 Type 1 or 100 $\mu$  [2.54 $\mu$ ] min. 93/7 Sn/Pb per ASTM B545 or 10 $\mu$  [0.254 $\mu$ ] min. Au per MIL-G-45204 or 30 $\mu$  [0.762 $\mu$ ] 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.



**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.

## ORDERING INFORMATION

Consult Factory – Aries will assign a special P/N

## MOUNTING CONSIDERATIONS

- SUGGESTED PCB HOLE SIZE : SOLDER TAIL : 0.030  $\pm$  0.002 [0.76  $\pm$  0.05] dia.  
: POST STYLE : 0.028  $\pm$  0.002 [0.71  $\pm$  0.05] dia.

ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES:  $\pm$ 0.005 [0.13] UNLESS OTHERWISE SPECIFIED

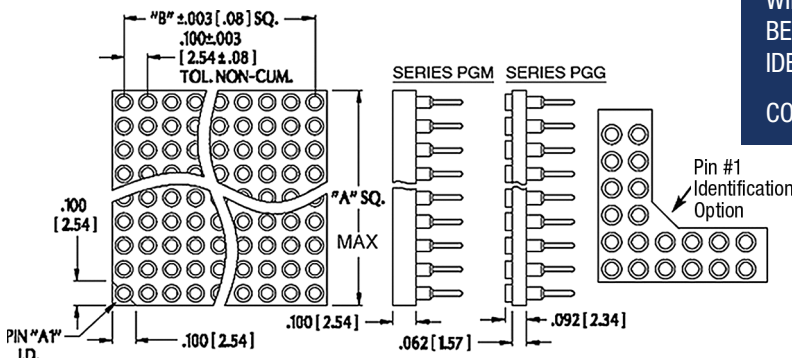
BASIC DIMENSIONS :

"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



**ARIES**  
ELECTRONICS, INC.

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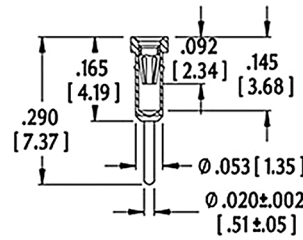


14033  
1 of 2  
Rev. AA

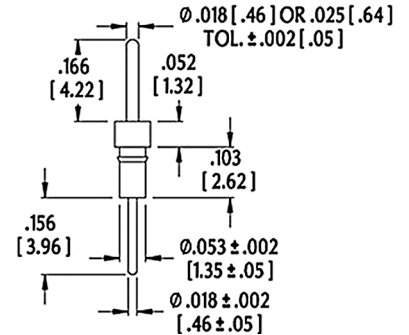


# Pin Grid Array Socket/Header on 0.100 [2.54] Centers w/Solder Pin Tails

**SOLDER TAIL**



**POST STYLE**



**ORDERING INFORMATION**

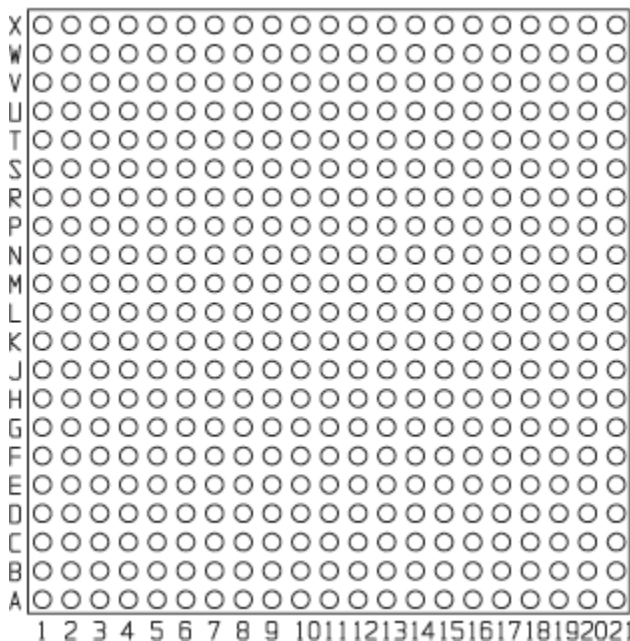
**XXX-PXX XX XXX-X X**

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  
 \* OTLTL = 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.





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**14033**  
**2 of 2**  
**Rev. AA**

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View 441-PPG21001-10 on WIN SOURCE](#)
-  [Aries Electronics Information](#)

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