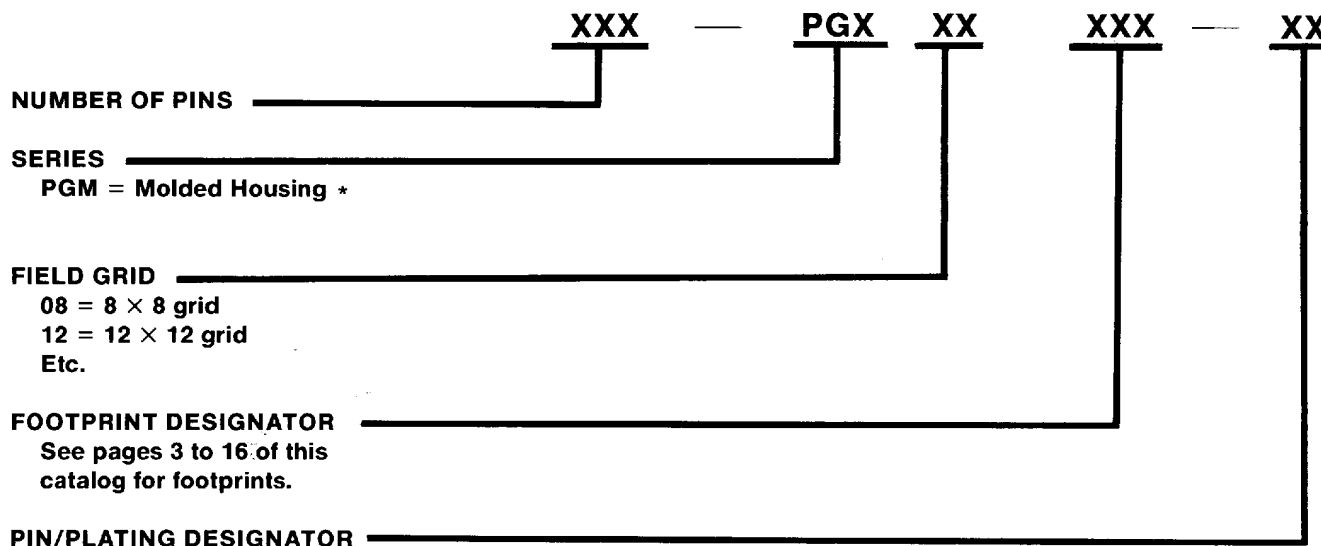


With the proliferation of pin grid packages on the market, there are a great number of options available on socket packages. Trying to incorporate these options into an easy to understand part numbering

structure is not an easy task. We have tried to make it as easy as possible with the following description.

ARIES PIN GRID ARRAY PART NO. STRUCTURE



* PGG = Glass Epoxy Housing (Only used if footprint has not been molded.)

DASH #	TYPE	PLATING	SKETCH
-10T	Socket, Solder Tail	Tin Collet/Tin Shell (See Chart A)	#1
-10	Socket, Solder Tail	Gold Collet/Tin Shell (See Chart A)	#1
-10H	Socket, Solder Tail	Heavy Gold Collet/Tin Shell (See Chart A)	#1
-11	Socket, Solder Tail	Gold Collet/Gold Shell (See Chart A)	#1
-11H	Socket, Solder Tail	Heavy Gold Collet/Tin Shell (See Chart A)	#1
-20	Socket, 2-Level Wire Wrap	Gold Collet/Tin Shell (See Chart A)	#2
-21	Socket, 2-Level Wire Wrap	Gold Collet/Gold Shell (See Chart A)	#2
-30	Socket, 3-Level Wire Wrap	Gold Collet/Tin Shell (See Chart A)	#2
-31	Socket, 3-Level Wire Wrap	Gold Collet/Gold Shell (See Chart A)	#2
-40	Header, Post Solder Tail	200 Microinches Tin over 100 Microinches Nickel	#3
-41	Header, Post Solder Tail	10 Microinches Gold over 100 Microinches Nickel	#3

Certain of the Aries products shown herein are covered by U.S. and Foreign patents and/or pending patent applications.

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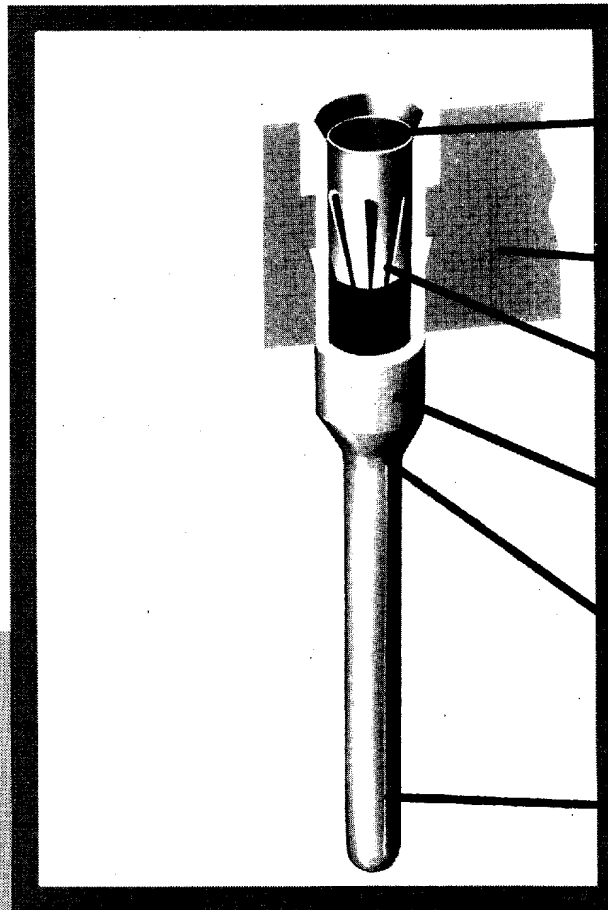
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® Registered™ Aries Electronics, Inc.

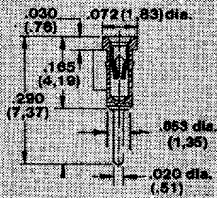
ARIES COLLET CONTACT PINS

These high quality, high performance-to-cost ratio contacts use gold plated beryllium copper contacts within a brass socket body available either tin or gold plated. Collet contacts accept .015-.022 dia. round leads.

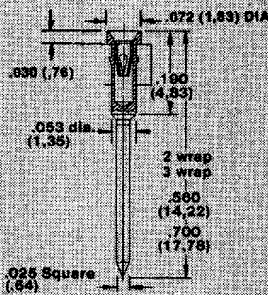
- Superior insertion-to-withdrawal ratios and low insertion force type for high pin count devices.
- Six point contact redundancy and gold plated spring clip contacts provide excellent mechanical and electrical performance.
- Collet contacts accept long or short leads.
- Machined from solid bar stock with closed bottom which prevents solder wicking.
- Socket body of glass filled thermoplastic or glass epoxy.



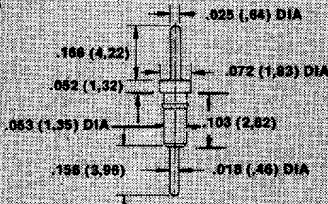
SKETCH 1



SKETCH 2



SKETCH 3



Plating: Table gives plating specifications by Termination Type and suffix Part Numbering of products using collet style pins.

Termination Type	Part No. Suffix	Specifications
Solder Tail	-10T	Contact: 100μ (2,54μm) tin minimum per MIL-T-10727 over 50μ (1,27μm) nickel per QQN-290. Body: 200μ (5,08μm) tin per MIL-T-10727 over 100μ (2,54μm) nickel per QQN-290.
	-10	Contact: 10μ (0,254μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 200μ (5,08μm) tin per MIL-T-10727 over 100μ (2,54μm) nickel per QQN-290.
	-10H	Contact: 30μ (0,76μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 200μ (5,08μm) tin per MIL-T-10727 over 100μ (2,54μm) nickel per QQN-290.
	-11	Contact: 10μ (0,254μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 10μ (0,254μm) gold minimum per MIL-G-45204 over 100μ (2,54μm) nickel per QQN-290.
	-11H	Contact: 30μ (0,76μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 10μ (0,254μm) gold minimum per MIL-G-45204 over 100μ (2,54μm) nickel per QQN-290.
Wire Wrap	-30	Contact: 30μ (0,76μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 200μ (5,08μm) tin per MIL-T-10727 over 100μ (2,54μm) nickel per QQN-290.
	-20	Contact: 30μ (0,76μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 200μ (5,08μm) tin per MIL-T-10727 over 100μ (2,54μm) nickel per QQN-290.
	-31	Contact: 30μ (0,76μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 10μ (0,254μm) gold minimum per MIL-G-45204 over 100μ (2,54μm) nickel per QQN-290.
	-21	Contact: 30μ (0,76μm) gold minimum per MIL-G-45204 over 50μ (1,27μm) nickel per QQN-290. Body: 10μ (0,254μm) gold minimum per MIL-G-45204 over 100μ (2,54μm) nickel per QQN-290.

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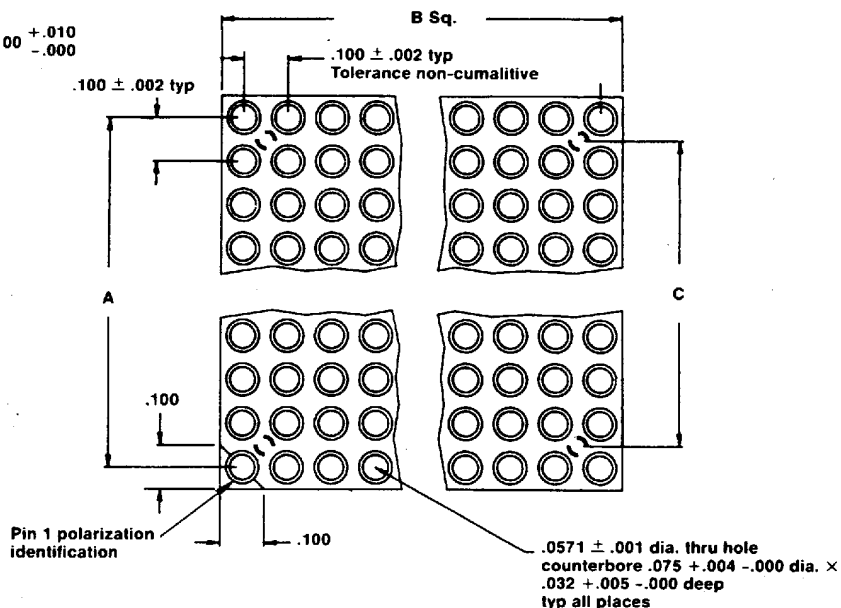
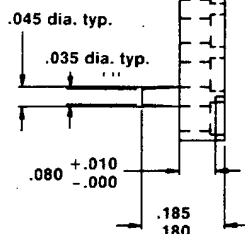
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NOTES:

1. All ctr dimensions are to be centered within .002 of true centerline.
2. Material is to be black, glass filled thermoplastic polyester, UL94V0 rated.

Optional Four Stand-Off Posts
.085 deep x .045 dia.
Consult factory.



DIMENSIONS (inches)

HOUSING SIZE	A ± .002	B +.000 - .005*	C = A - .100 ± .005
9 × 9	.800	.900	.700
10 × 10	.900	1.000	.800
11 × 11	1.000	1.100	.900
12 × 12	1.100	1.200	1.000
13 × 13	1.200	1.300	1.100
14 × 14	1.300	1.400	1.200
15 × 15	1.400	1.500	1.300
16 × 16	1.500	1.600	1.400
17 × 17	1.600	1.700	1.500
18 × 18	1.700	1.800	1.600
19 × 19	1.800	1.900	1.700
20 × 20	1.900	2.000	1.800
21 × 21	2.000	2.100	1.900

*Non-Cumulative

Consult factory for grids not listed. Grids such as 3 × 3 thru 8 × 8 can be achieved using glass epoxy housings (PGG version).

PIN GRID PLASTIC

Specifications

- Injection molded, glass reinforced thermoplastic polyester UL94V0 rated. Other engineered resins available. Consult factory.
- All footprints on industry standard .100" × .100" grid.
- Color - black.
- Platform is precision molded with extremely tight

tolerances on all dimensions.

- Dimensions of plastic platform allow side-to-side stacking on .100" grid. (This is important for dense packaging of p.c. boards.)
- Pin 1 identified by chamfered corner.

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4

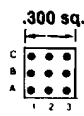
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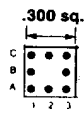
All footprints are topview.

FOOTPRINTS

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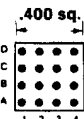


9 PINS
Footprint 03001



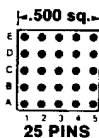
8 PINS
Footprint 03002

4x4



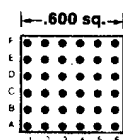
16 PINS
Footprint 04001

5x5



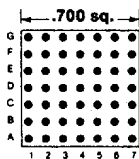
25 PINS
Footprint 05001

6x6



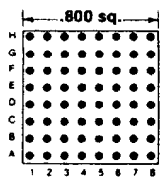
36 PINS
Footprint 06001

7x7

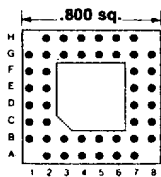


49 PINS
Footprint 07001

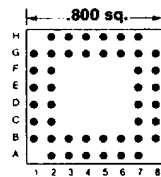
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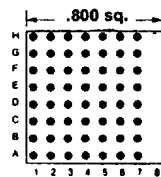
64 PINS
Footprint 08001



44 PINS
Footprint 08002

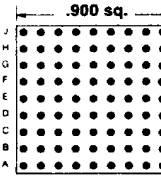


44 PINS
Footprint 08003

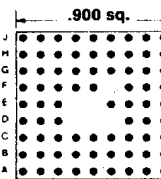


56 PINS
Footprint 08004

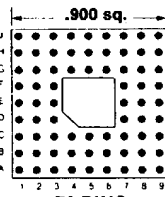
9x9



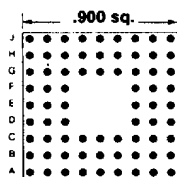
81 PINS
Footprint 09001



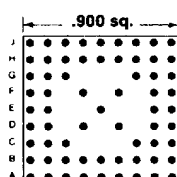
75 PINS
Footprint 09002



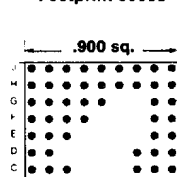
72 PINS
Footprint 09003



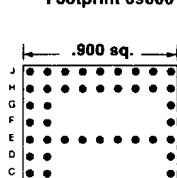
72 PINS
Footprint 09004



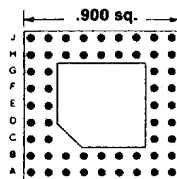
65 PINS
Footprint 09005



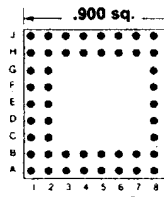
65 PINS
Footprint 09006



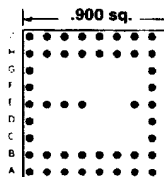
57 PINS
Footprint 09007



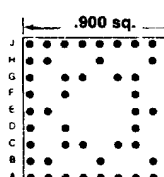
56 PINS
Footprint 09008



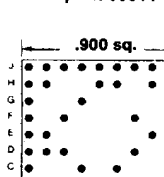
56 PINS
Footprint 09009



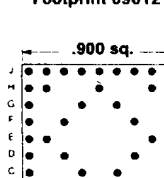
55 PINS
Footprint 09010



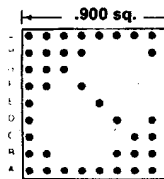
53 PINS
Footprint 09011



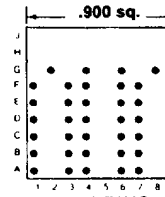
49 PINS
Footprint 09012



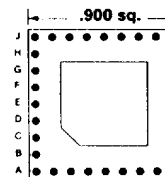
48 PINS
Footprint 09013



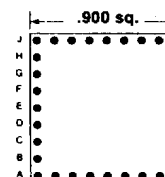
48 PINS
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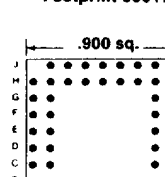
40 PINS
Footprint 09015



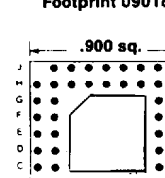
32 PINS
Footprint 09016



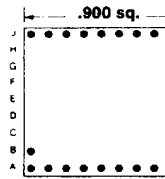
32 PINS
Footprint 09017



52 PINS
Footprint 09018



52 PINS
Footprint 09019



22 PINS
Footprint 09020

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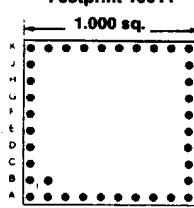
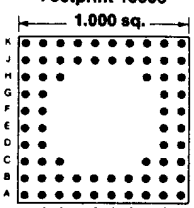
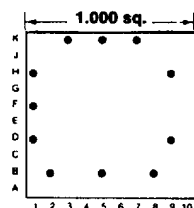
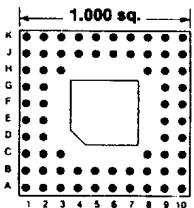
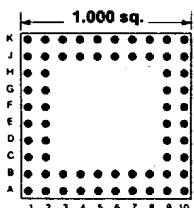
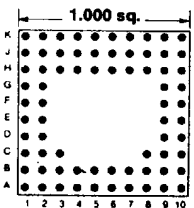
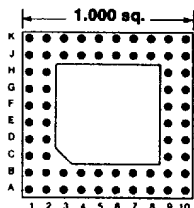
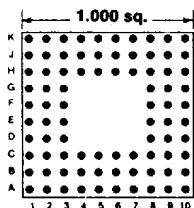
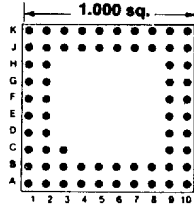
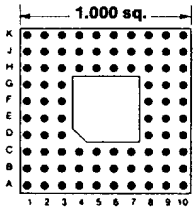
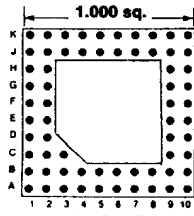
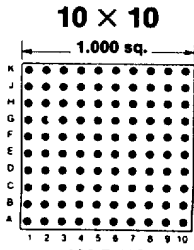
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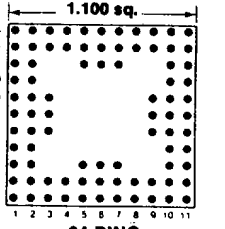
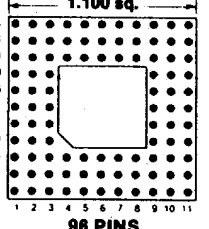
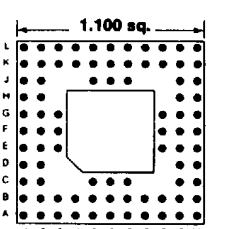
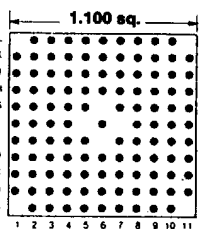
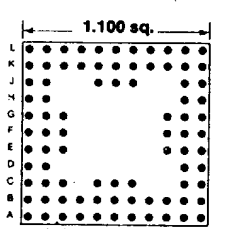
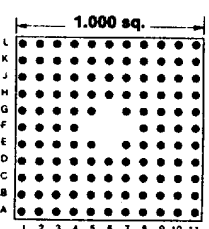
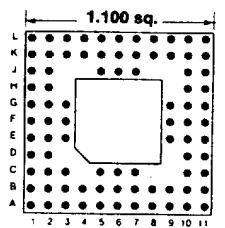
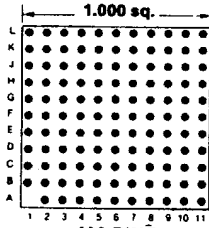
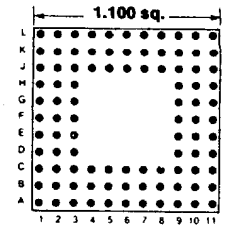
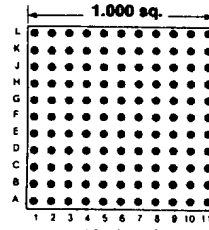
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All footprints are topview.

FOOTPRINTS



11 x 11

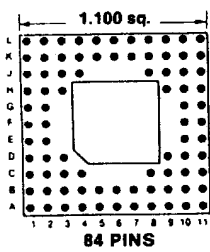


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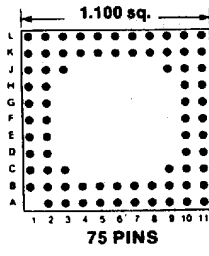


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Fax: +44-908-260008

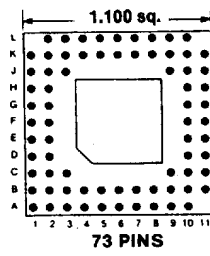
11 x 11 cont.



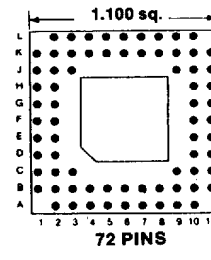
Footprint 11011



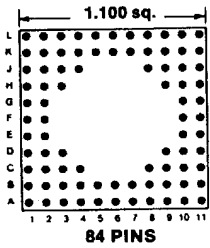
Footprint 11016



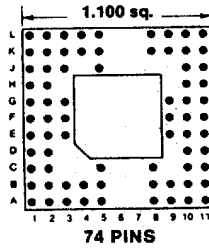
Footprint 11021



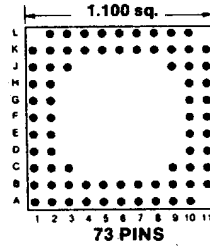
Footprint 11026



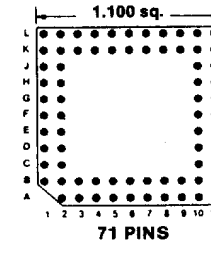
Footprint 11012



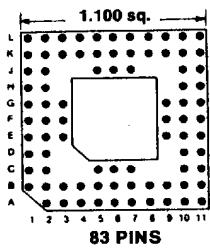
Footprint 11017



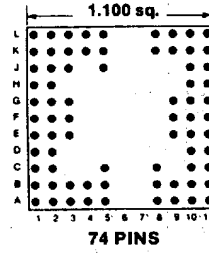
Footprint 11022



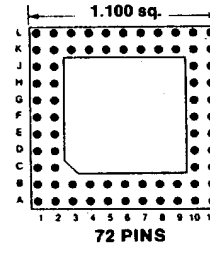
Footprint 11027



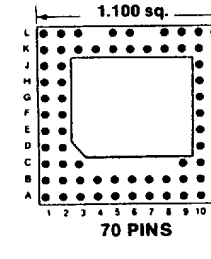
Footprint 11013



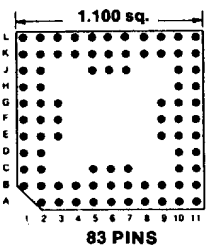
Footprint 11018



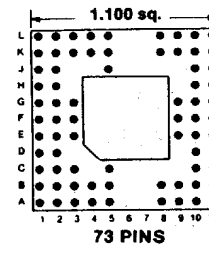
Footprint 11023



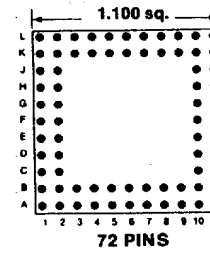
Footprint 11028



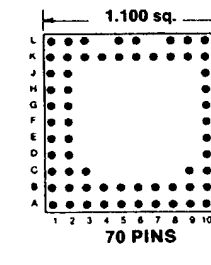
Footprint 11014



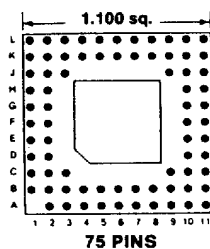
Footprint 11019



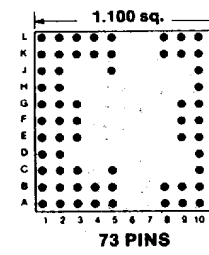
Footprint 11024



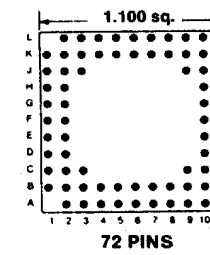
Footprint 11029



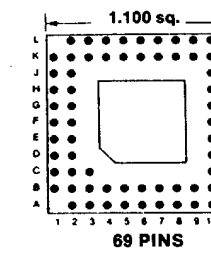
Footprint 11015



Footprint 11020



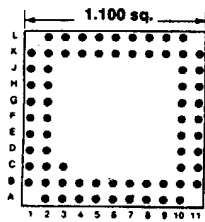
Footprint 11025



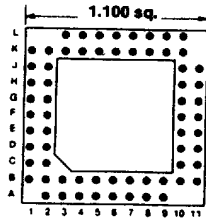
Footprint 11030

FOOTPRINTS

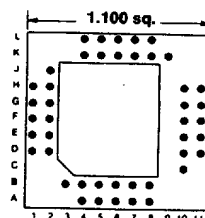
11 x 11 cont.



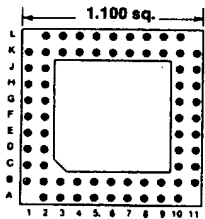
69 PINS
Footprint 11031



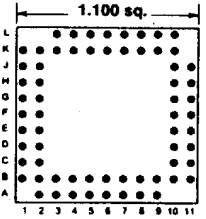
65 PINS
Footprint 11036



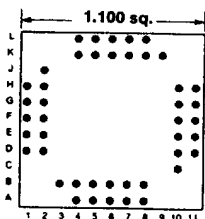
44 PINS
Footprint 11041



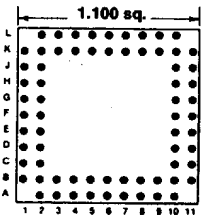
68 PINS
Footprint 11032



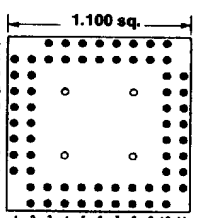
65 PINS
Footprint 11037



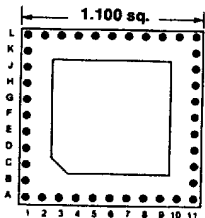
44 PINS
Footprint 11042



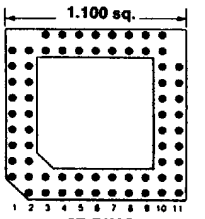
68 PINS
Footprint 11033



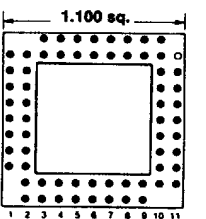
65 PINS
Footprint 11038



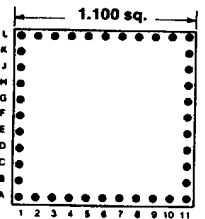
40 PINS
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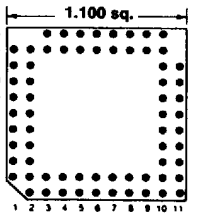
67 PINS
Footprint 11034



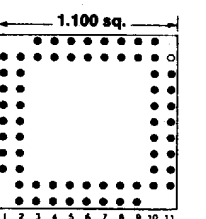
64 PINS
Footprint 11039



40 PINS
Footprint 11044

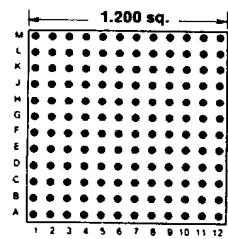


67 PINS
Footprint 11035

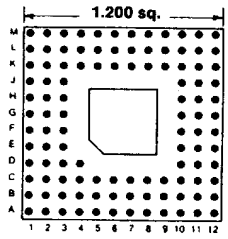


64 PINS
Footprint 11040

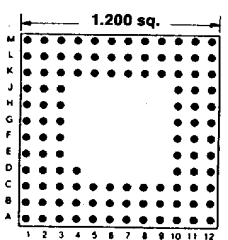
12 x 12



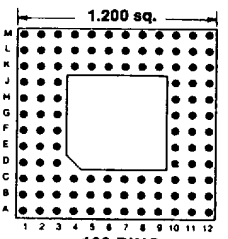
144 PINS
Footprint 12001



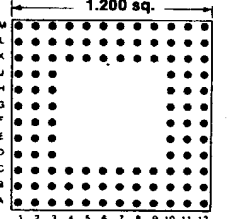
109 PINS
Footprint 12002



109 PINS
Footprint 12003



108 PINS
Footprint 12004



108 PINS
Footprint 12005

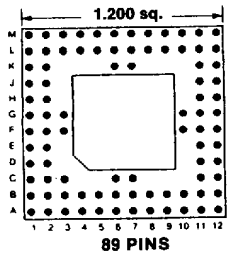


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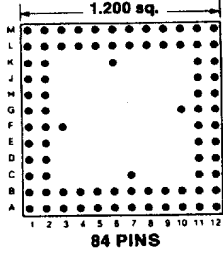


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Milton Keynes, England MK19 6AQ
Telephone: +44-908-260007
Fax: +44-908-260008

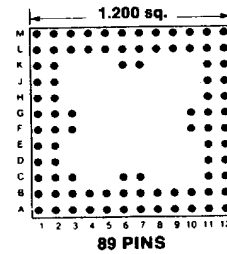
12 X 12 cont.



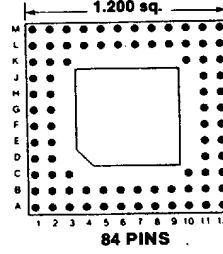
Footprint 12006



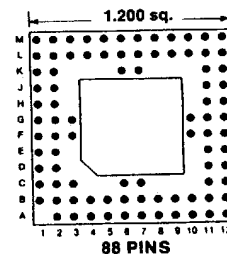
Footprint 12011



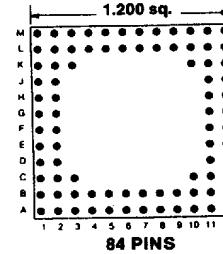
Footprint 12007



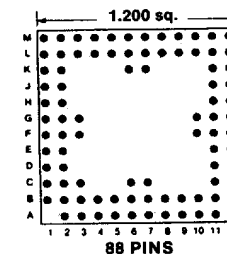
Footprint 12012



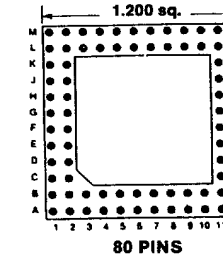
Footprint 12008



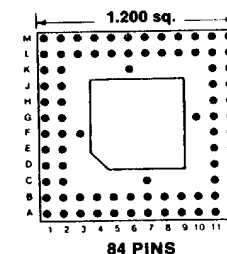
Footprint 12013



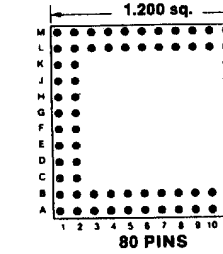
Footprint 12009



Footprint 12014

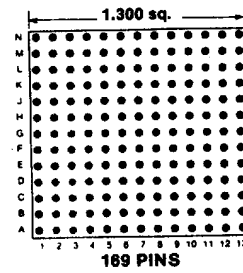


Footprint 12010

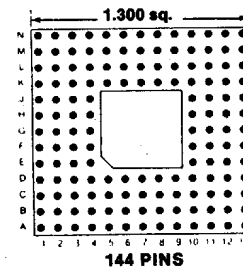


Footprint 12015

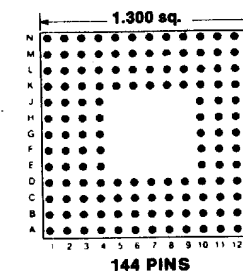
13 X 13



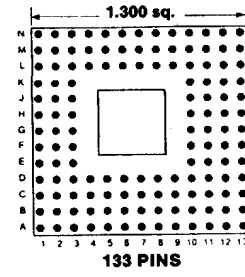
Footprint 13001



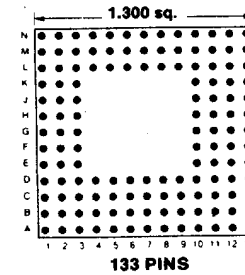
Footprint 13002



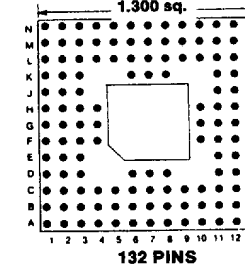
Footprint 13003



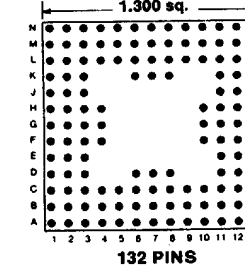
Footprint 13004



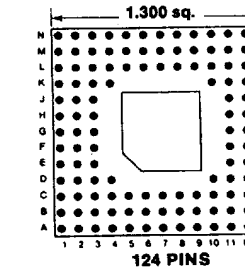
Footprint 13005



Footprint 13006



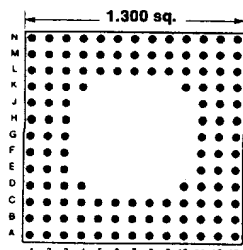
Footprint 13007



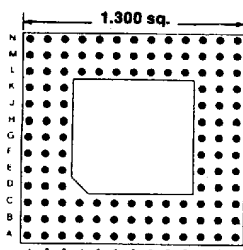
Footprint 13008

FOOTPRINTS

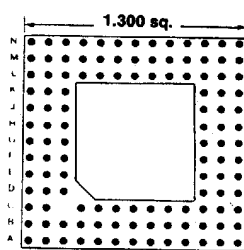
13 x 13 cont.



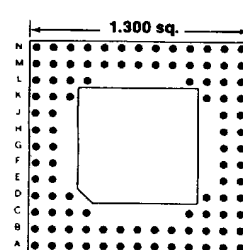
124 PINS



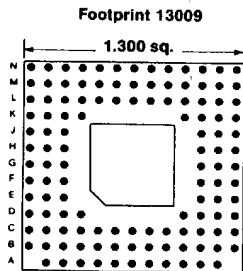
120 PINS



119 PINS

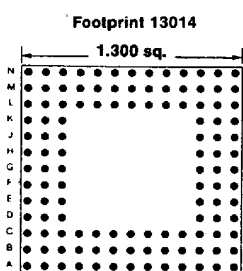


100 PINS



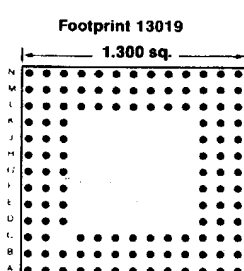
122 PINS

Footprint 13009



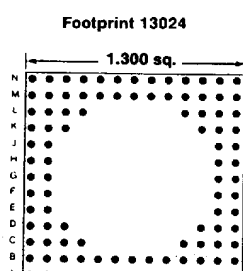
120 PINS

Footprint 13014



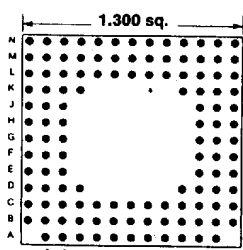
119 PINS

Footprint 13019



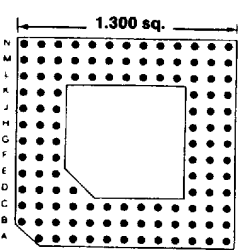
100 PINS

Footprint 13024



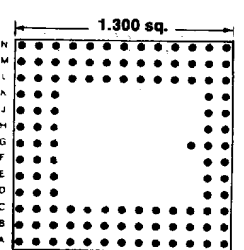
122 PINS

Footprint 13010



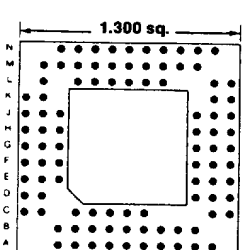
120 PINS

Footprint 13015



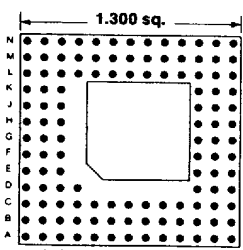
114 PINS

Footprint 13020



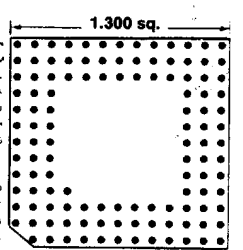
96 PINS

Footprint 13025



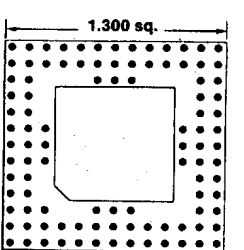
121 PINS

Footprint 13011



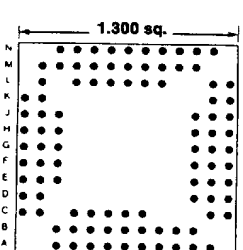
120 PINS

Footprint 13016



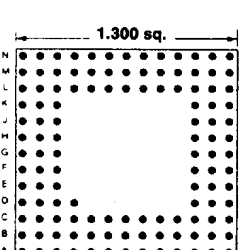
101 PINS

Footprint 13021



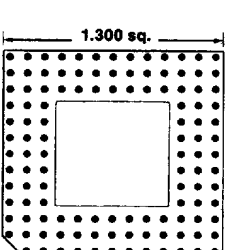
96 PINS

Footprint 13026



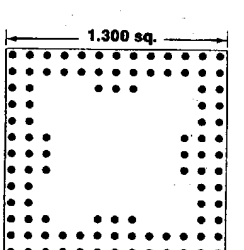
121 PINS

Footprint 13012



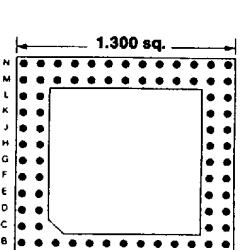
119 PINS

Footprint 13017



101 PINS

Footprint 13022



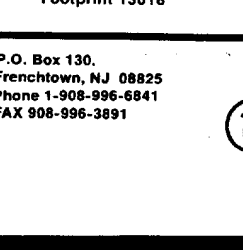
88 PINS

Footprint 13027



121 PINS

Footprint 13013



119 PINS

Footprint 13018



101 PINS

Footprint 13023



88 PINS

Footprint 13028



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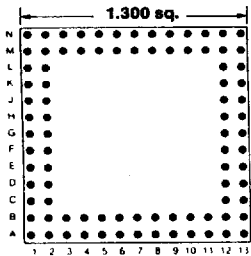


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All footprints are topview.

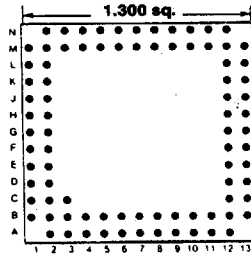
13 x 13 cont.

FOOTPRINTS



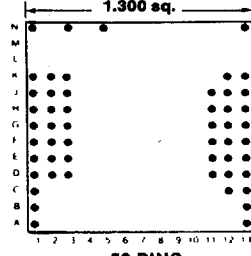
88 PINS

Footprint 13029



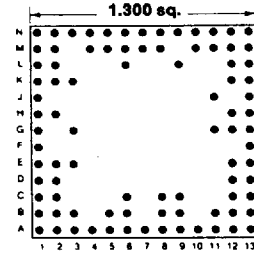
85 PINS

Footprint 13033



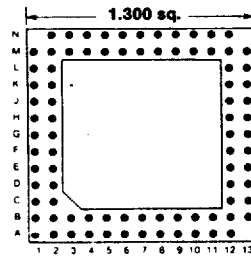
52 PINS

Footprint 13037



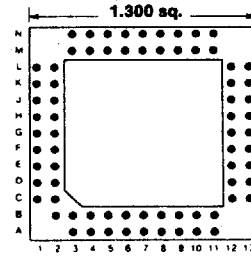
88 PINS

Footprint 13041



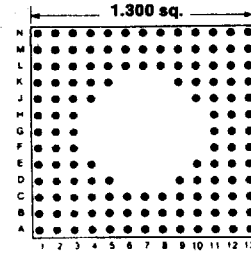
85 PINS

Footprint 13030



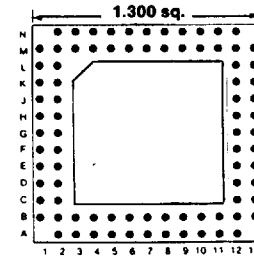
73 PINS

Footprint 13034



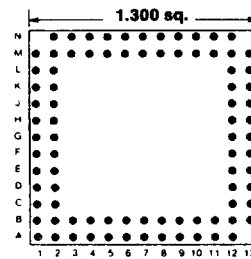
132 PINS

Footprint 13038



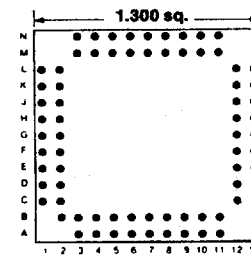
84 PINS

Footprint 13042



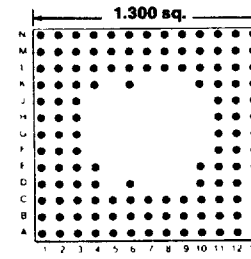
85 PINS

Footprint 13031



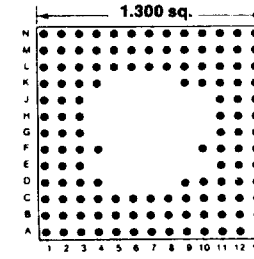
73 PINS

Footprint 13035



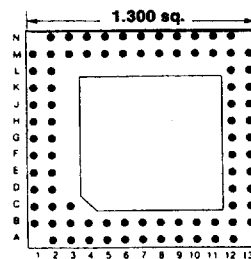
128 PINS

Footprint 13039



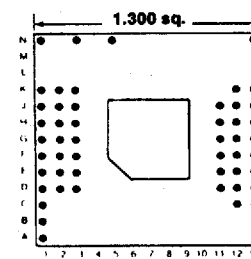
128 PINS

Footprint 13043



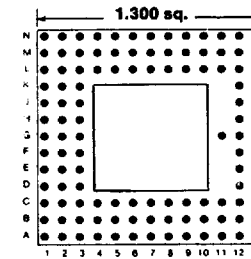
85 PINS

Footprint 13032



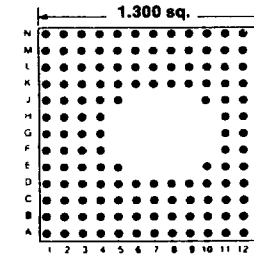
52 PINS

Footprint 13036



114 PINS

Footprint 13040



143 PINS

Footprint 13044

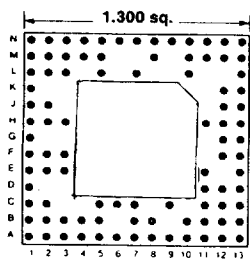
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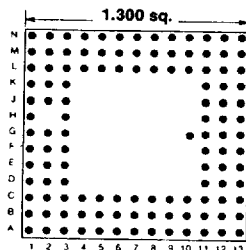
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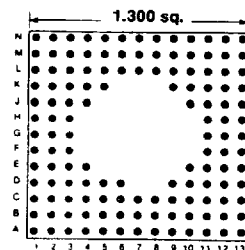
FOOTPRINTS



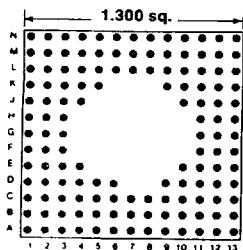
93 PINS
Footprint 13045



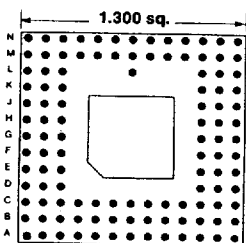
113 PINS
Footprint 13050



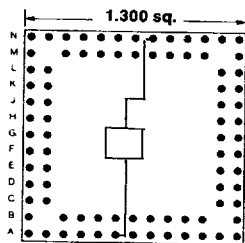
133 PINS
Footprint 13055



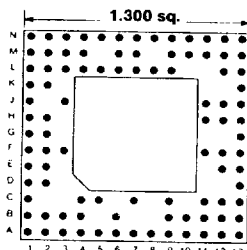
133 PINS
Footprint 13046



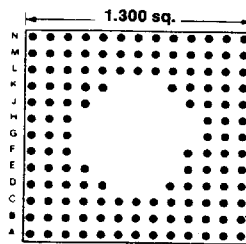
114 PINS
Footprint 13051



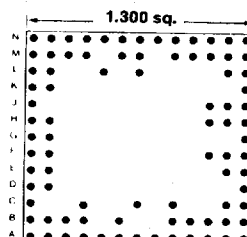
84 PINS
Footprint 13056



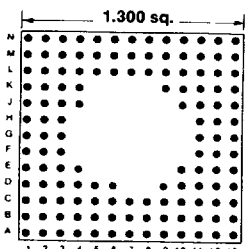
95 PINS
Footprint 13047



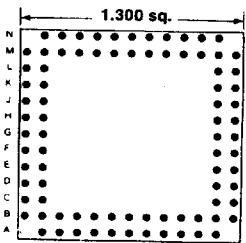
133 PINS
Footprint 13052



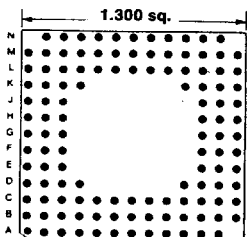
88 PINS
Footprint 13057



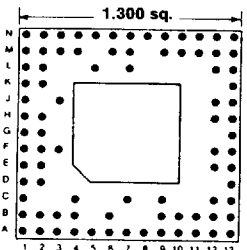
133 PINS
Footprint 13048



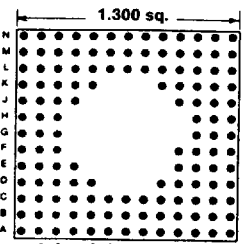
84 PINS
Footprint 13053



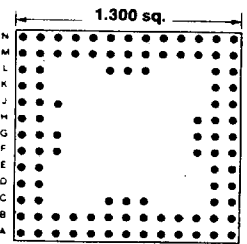
121 PINS
Footprint 13058



88 PINS
Footprint 13049



133 PINS
Footprint 13054



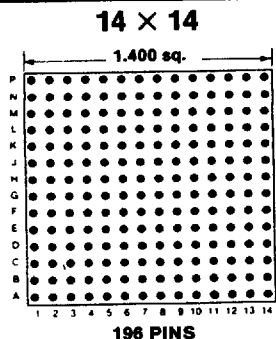
100 PINS
Footprint 13059



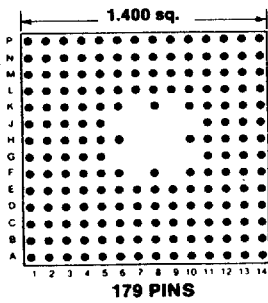
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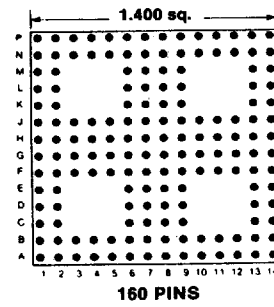
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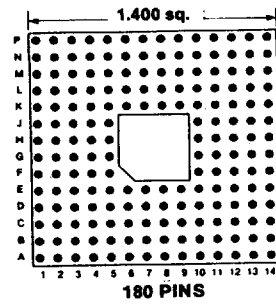
Footprint 14001



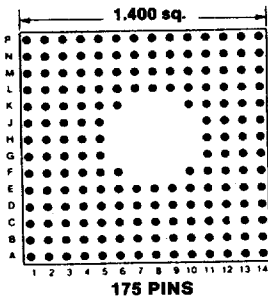
Footprint 14005



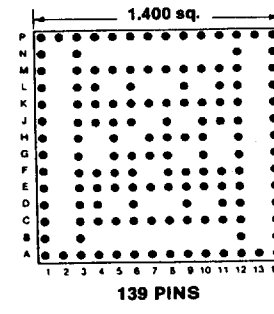
Footprint 14009



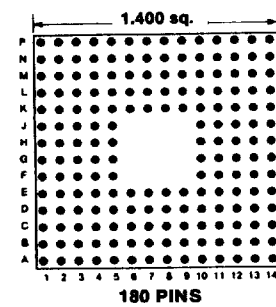
Footprint 14002



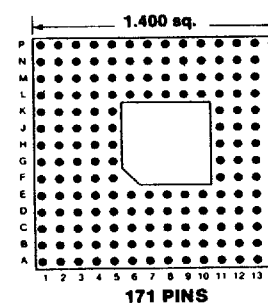
Footprint 14006



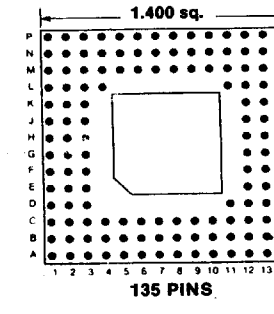
Footprint 14010



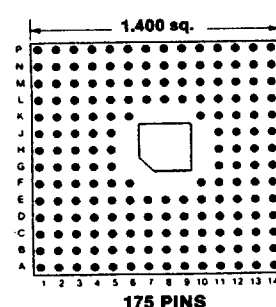
Footprint 14003



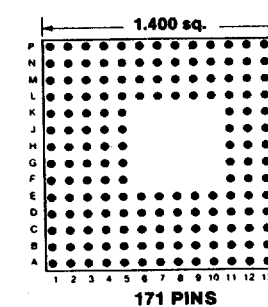
Footprint 14007



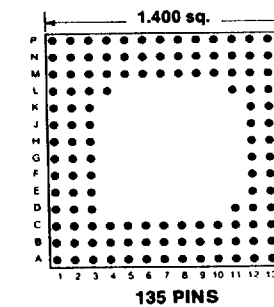
Footprint 14011



Footprint 14004



Footprint 14008

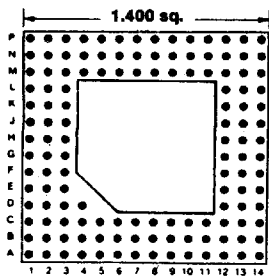


Footprint 14012

All footprints are topview.

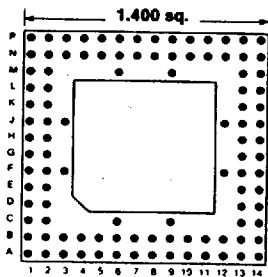
FOOTPRINTS

14 x 14 cont.



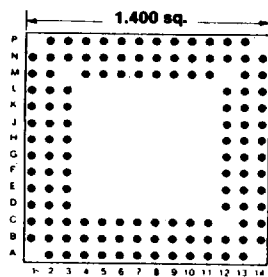
133 PINS

Footprint 14013



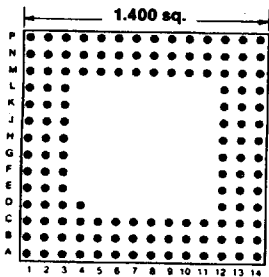
104 PINS

Footprint 14017



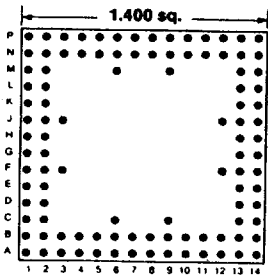
125 PINS

Footprint 14021



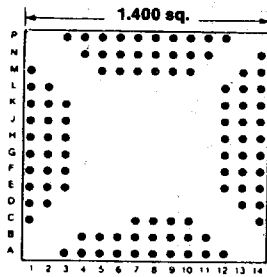
133 PINS

Footprint 14014



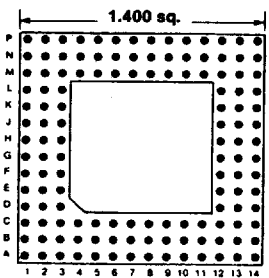
104 PINS

Footprint 14018



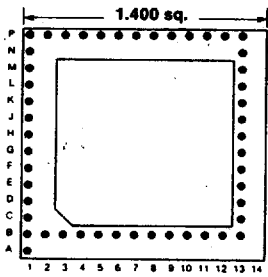
94 PINS

Footprint 14022



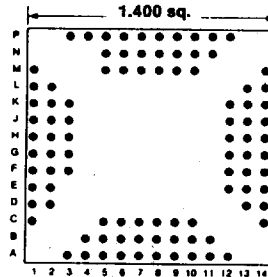
132 PINS

Footprint 14015



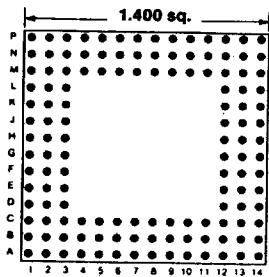
49 PINS

Footprint 14019



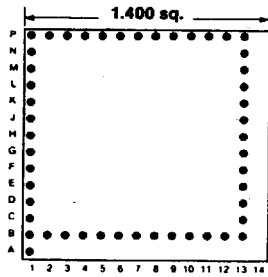
94 PINS

Footprint 14023



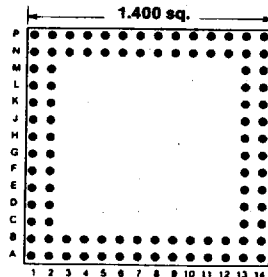
132 PINS

Footprint 14016



49 PINS

Footprint 14020



96 PINS

Footprint 14024

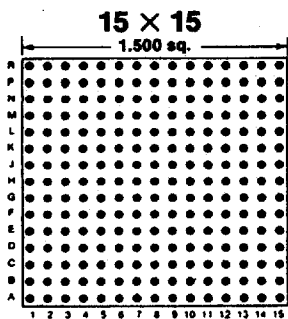


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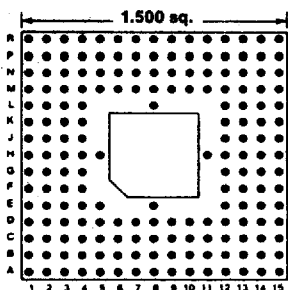
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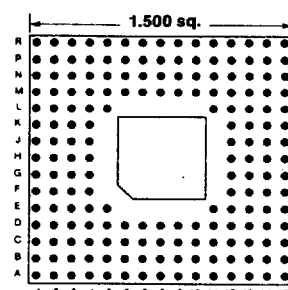
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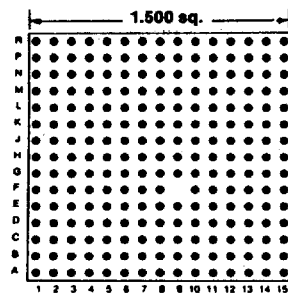
225 PINS
Footprint 15001



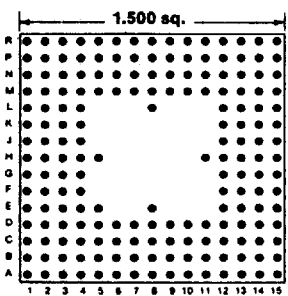
181 PINS
Footprint 15005



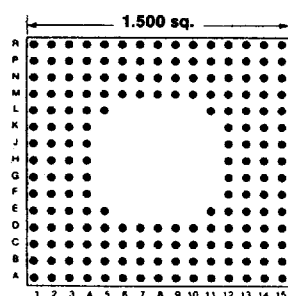
180 PINS
Footprint 15009



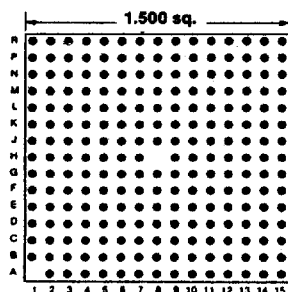
224 PINS
Footprint 15002



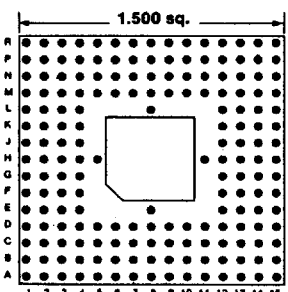
181 PINS
Footprint 15006



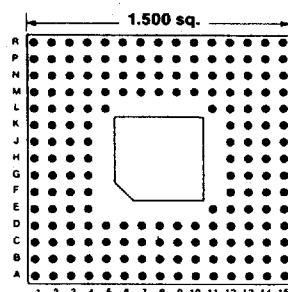
180 PINS
Footprint 15010



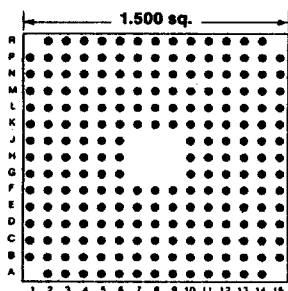
223 PINS
Footprint 15003



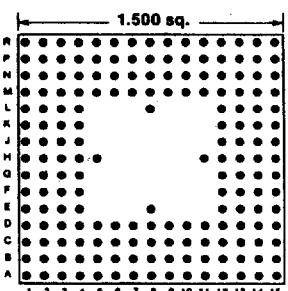
180 PINS
Footprint 15007



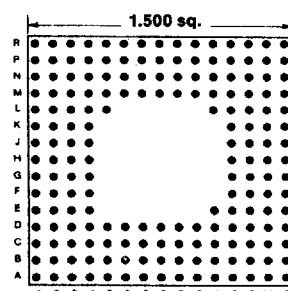
179 PINS
Footprint 15011



212 PINS
Footprint 15004



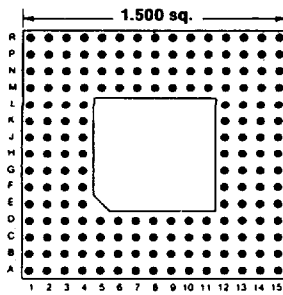
180 PINS
Footprint 15008



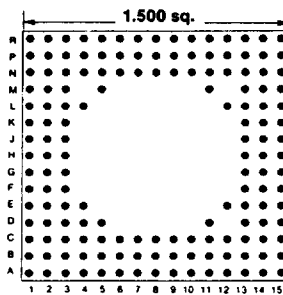
179 PINS
Footprint 15012

FOOTPRINTS

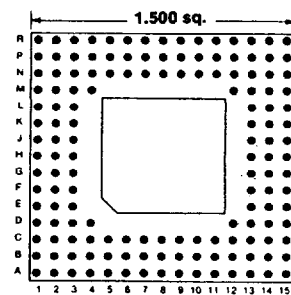
15 x 15 cont.



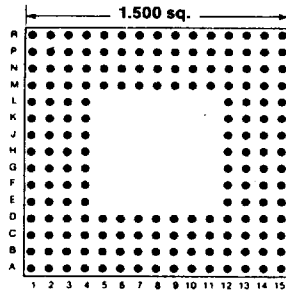
176 PINS
Footprint 15013



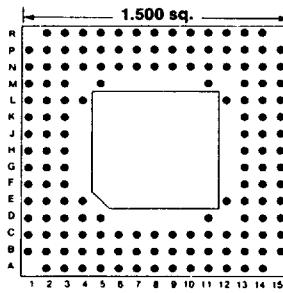
153 PINS
Footprint 15017



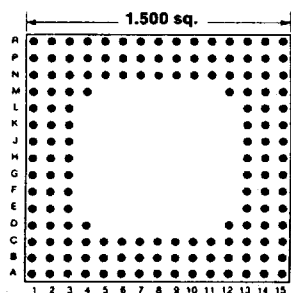
148 PINS
Footprint 15021



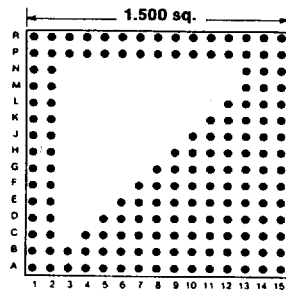
176 PINS
Footprint 15014



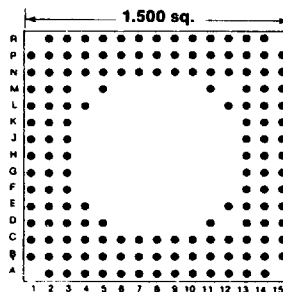
149 PINS
Footprint 15018



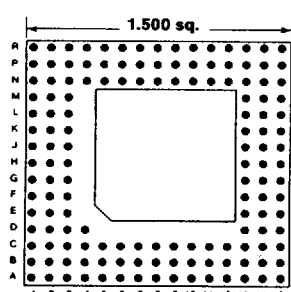
148 PINS
Footprint 15022



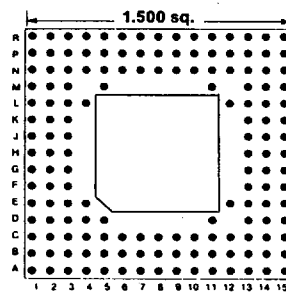
160 PINS
Footprint 15015



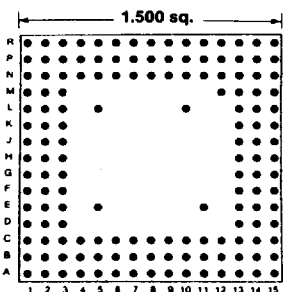
149 PINS
Footprint 15019



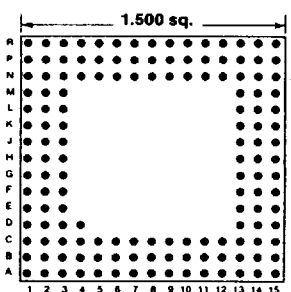
145 PINS
Footprint 15023



153 PINS
Footprint 15016



149 PINS
Footprint 15020



145 PINS
Footprint 15024



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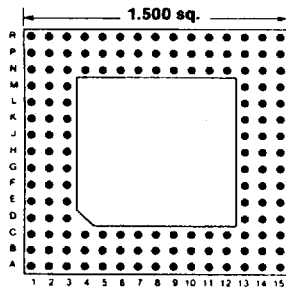


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All footprints are topview.

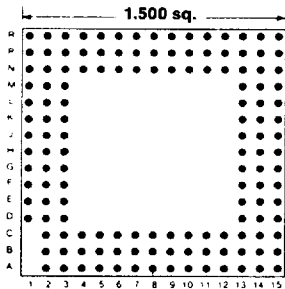
FOOTPRINTS

15 x 15 cont.



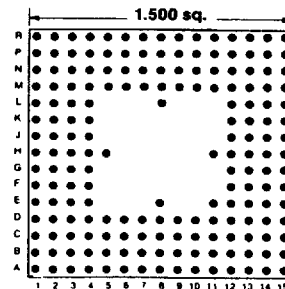
144 PINS

Footprint 15025



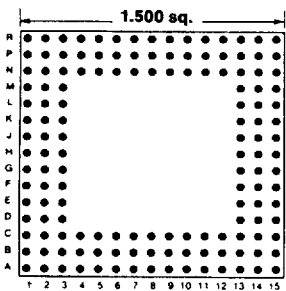
141 PINS

Footprint 15029



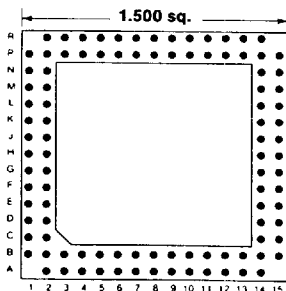
181 PINS

Footprint 15033



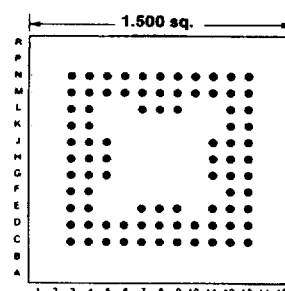
144 PINS

Footprint 15026



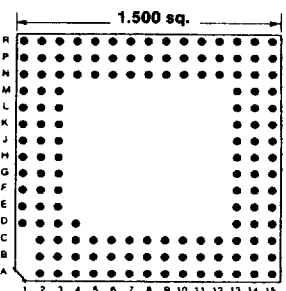
100 PINS

Footprint 15030



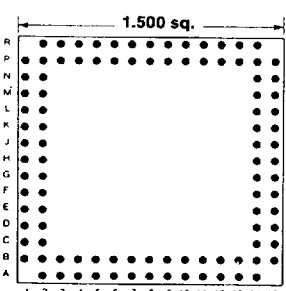
85 PINS

Footprint 15034



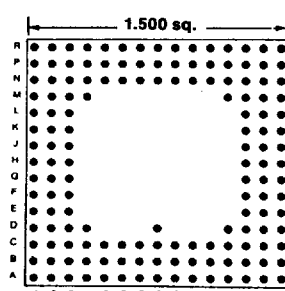
142 PINS

Footprint 15027



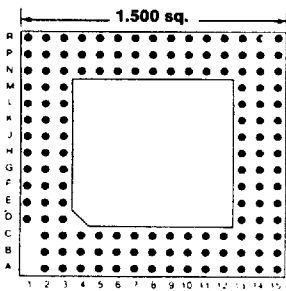
100 PINS

Footprint 15031



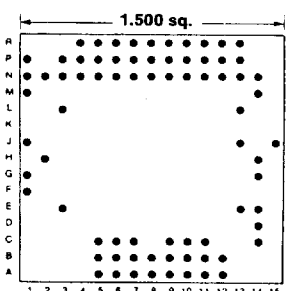
149 PINS

Footprint 15035



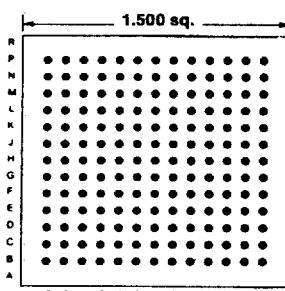
141 PINS

Footprint 15028



75 PINS

Footprint 15032



169 PINS

Footprint 15036

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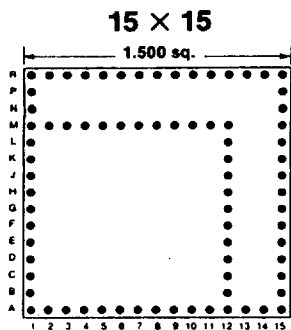
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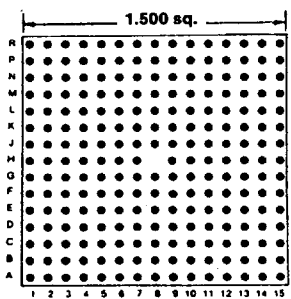
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All footprints are topview.

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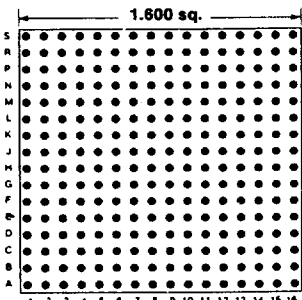


77 PINS
Footprint 15037

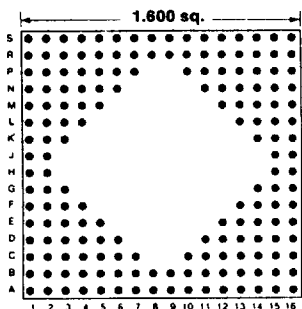


224 PINS
Footprint 15038

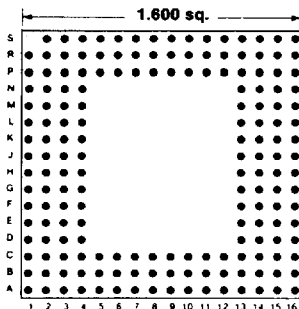
16 x 16



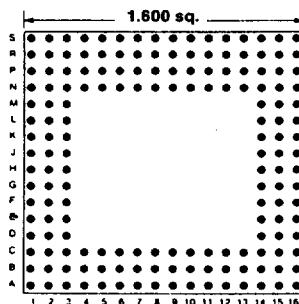
256 PINS
Footprint 16001



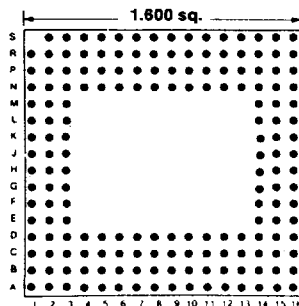
172 PINS
Footprint 16002



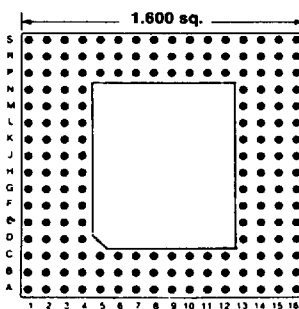
175 PINS
Footprint 16003



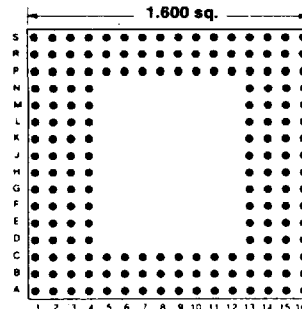
166 PINS
Footprint 16004



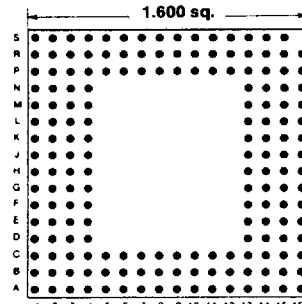
175 PINS
Footprint 16005



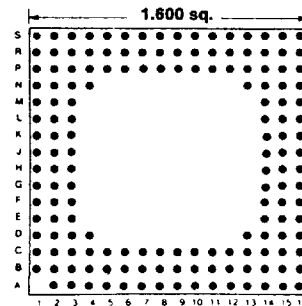
176 PINS
Footprint 16006



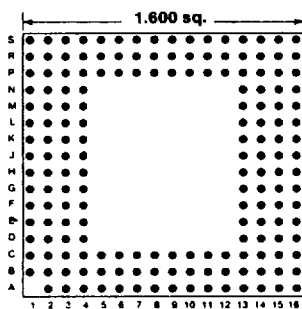
176 PINS
Footprint 16007



175 PINS
Footprint 16008



159 PINS
Footprint 16009



175 PINS
Footprint 16010



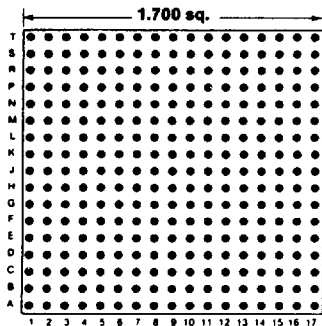
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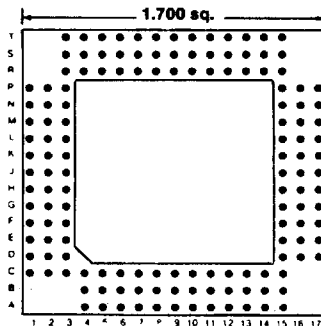
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17 x 17

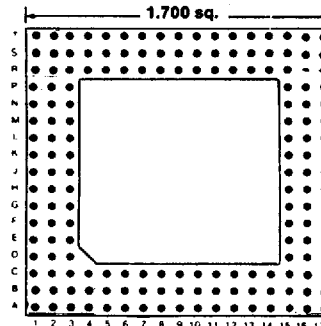
FOOTPRINTS



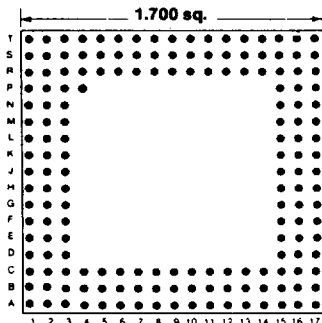
289 PINS
Footprint 17001



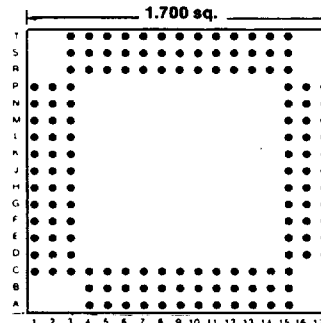
144 PINS
Footprint 17005



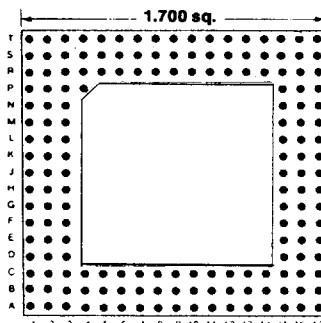
168 PINS
Footprint 17009



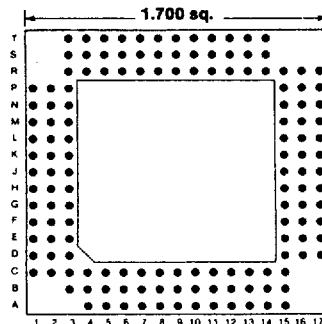
169 PINS
Footprint 17002



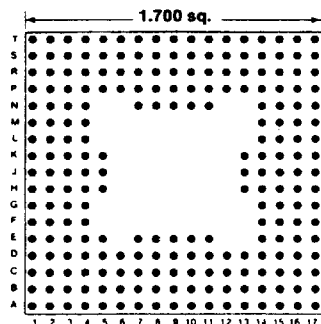
144 PINS
Footprint 17006



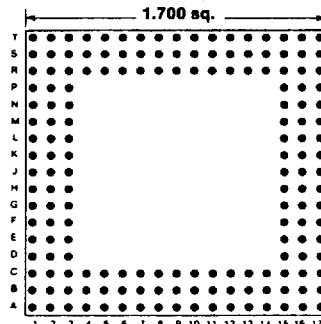
169 PINS
Footprint 17010



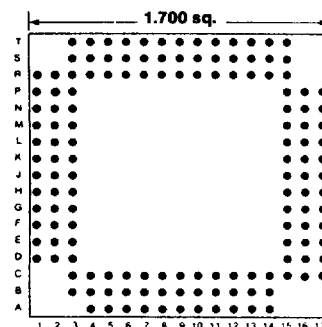
145 PINS
Footprint 17003



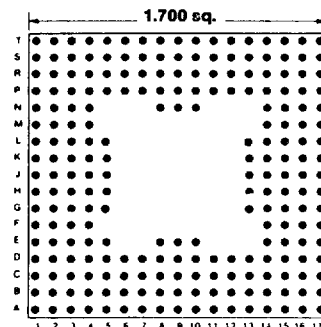
225 PINS
Footprint 17007



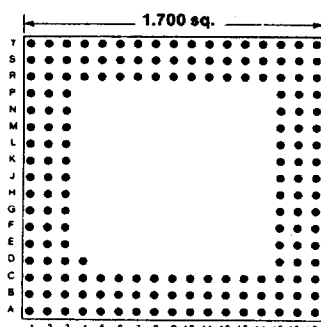
168 PINS
Footprint 17011



145 PINS
Footprint 17004



225 PINS
Footprint 17008



169 PINS
Footprint 17012

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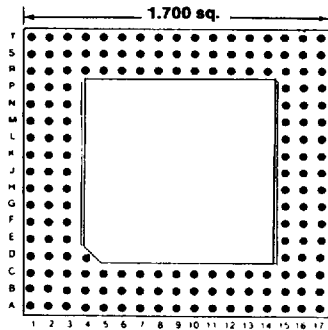
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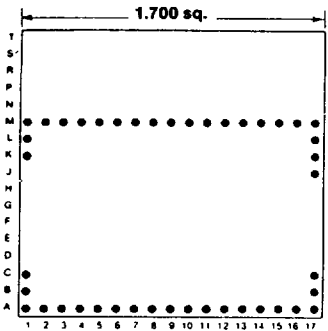
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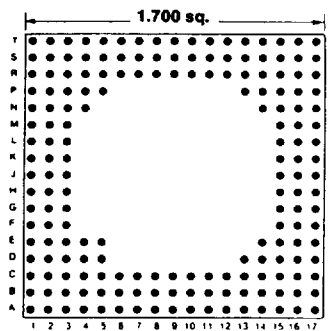
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169 PINS
Footprint 17013

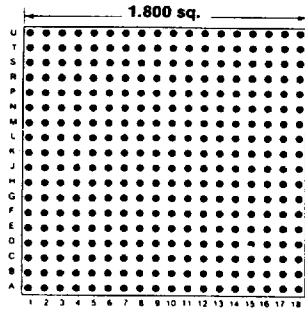


43 PINS
Footprint 17014

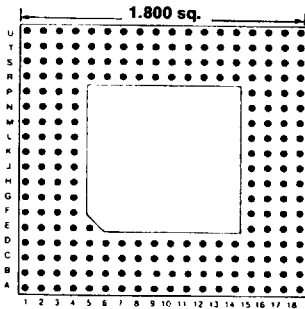


181 PINS
Footprint 17015

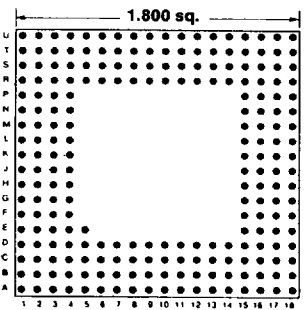
18 x 18



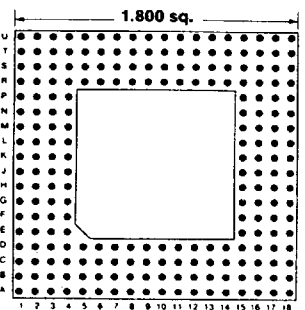
324 PINS
Footprint 18001



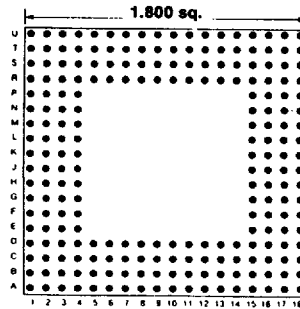
225 PINS
Footprint 18002



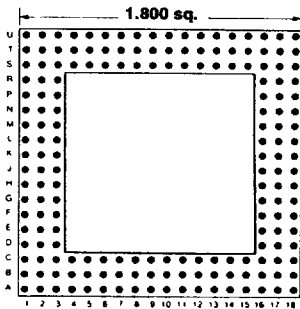
225 PINS
Footprint 18003



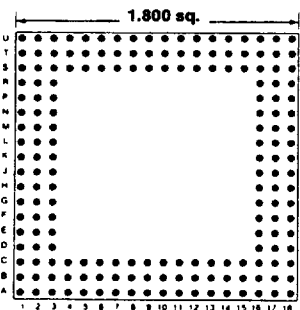
224 PINS
Footprint 18004



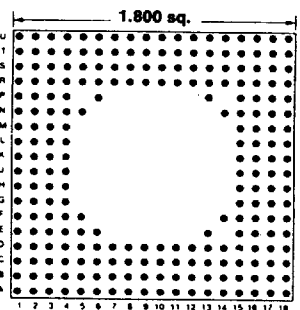
224 PINS
Footprint 18005



180 PINS
Footprint 18006



180 PINS
Footprint 18007



233 PINS
Footprint 18008



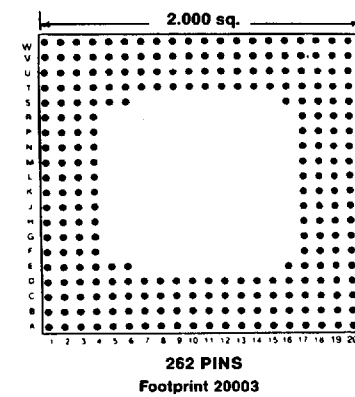
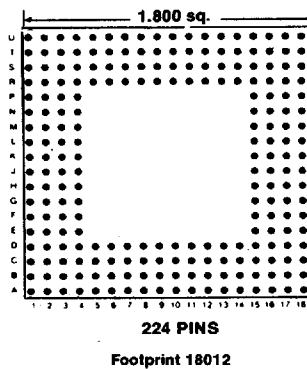
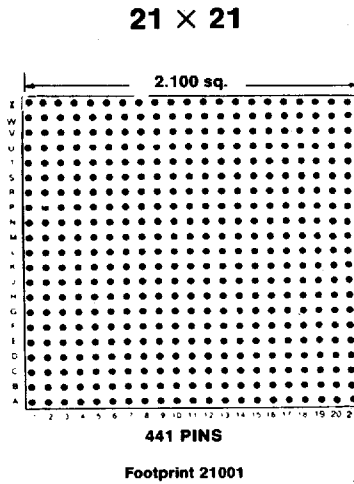
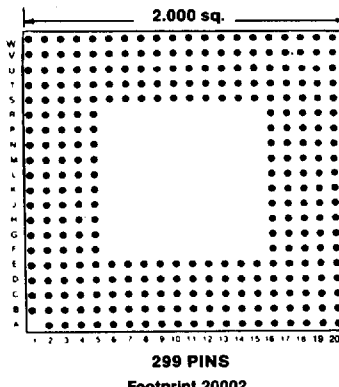
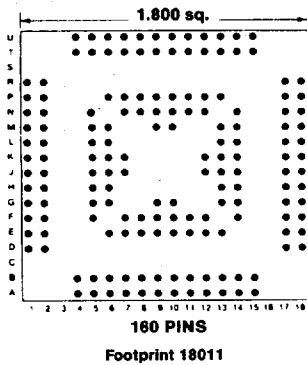
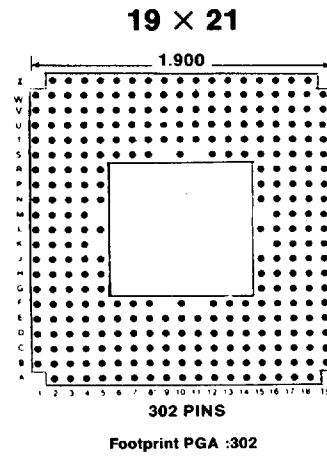
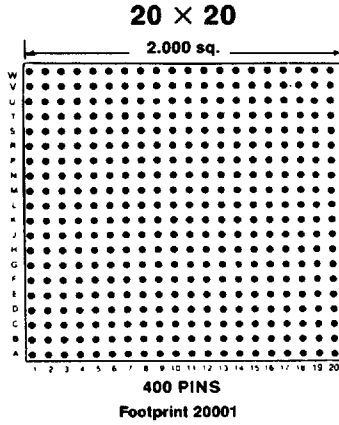
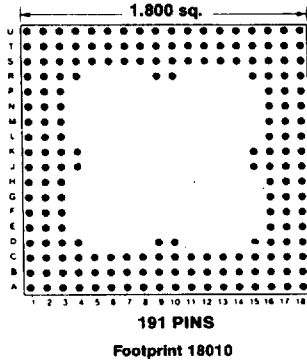
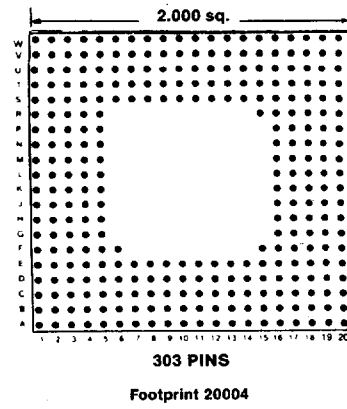
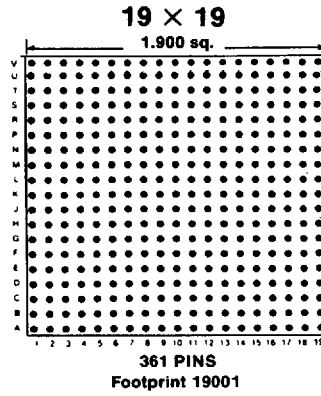
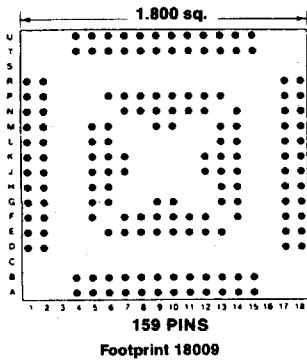
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