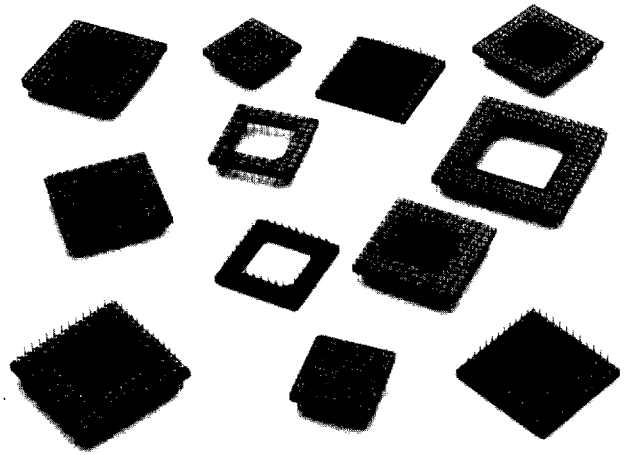


A-23-05

8.1



Garry's 714 PGA series offers high temperature plastic in standard size footprint configurations from 6 x 6 thru 25 x 25. Custom footprints are available upon request. The 715 series offers high temperature plastic with "standoffs". The 716 series offers interstitial footprints which are manufactured from FR-4, .062" thick glass epoxy material.

All series offer your choice of different pin configurations along with Garry's new "Retent-A-Pin". The "Retent-A-Pin" feature provides positive retention on the Printed Circuit Board thru wave, vapor phase, and infrared soldering applications. Garry supplies a low insertion force six finger spring contact in all standard pins. The adapter PGA series offers precision screw machine terminals that assure durability even with repeated insertions and withdrawals.

- High temperature plastic will withstand wave, vapor phase, and infrared soldering.
- Six(6) fingered Beryllium copper contacts provide low insertion.
- Six(6) points of contact redundancy and standard gold plating on spring clip contacts provide maximum mechanical and electrical performance.
- Precision machined outer sleeve features closed bottom to eliminate solder wicking problems.
- Precision design allows for ease of insertion using automatic insertion equipment.

Materials

Insulator:

High temperature, PPS. Color: Black.

Spring Contact:

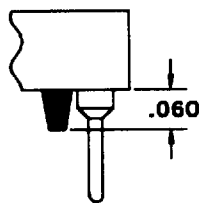
Six finger, Beryllium copper, Gold over nickel plating.

Outer sleeve:

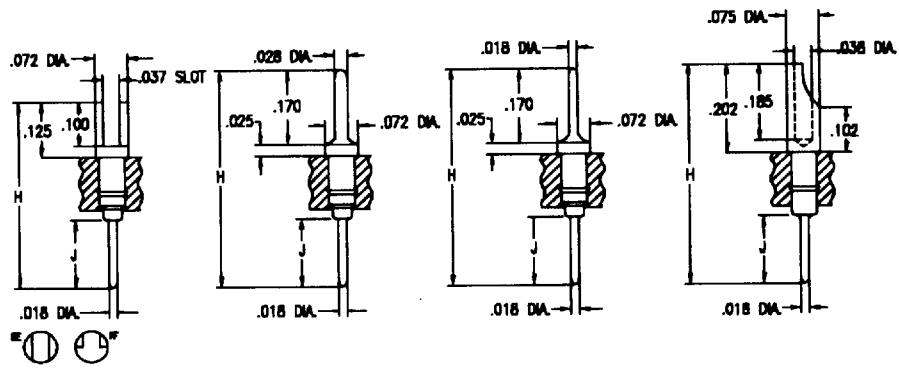
Brass. Gold over nickel. Tin Lead over nickel plating.

Plating options and specifications are available by contacting either the Garry factory or your local representative.

Garry's "Ultra Low" 3 fingered spring clip for high pin count applications is available upon request.



ALL PINS CAN BE SUPPLIED IN STANDOFF PLASTIC



EE-FF

TT

TF

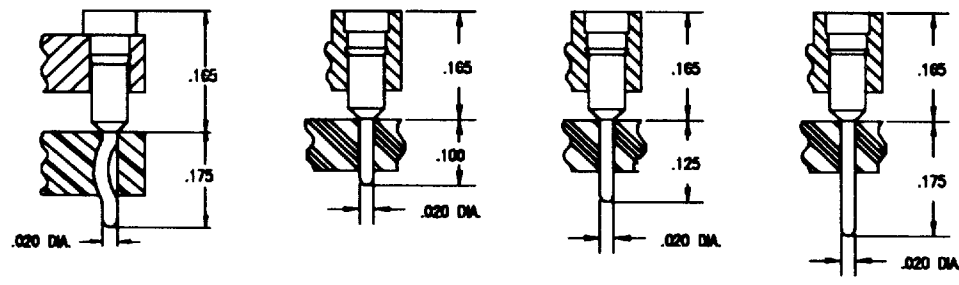
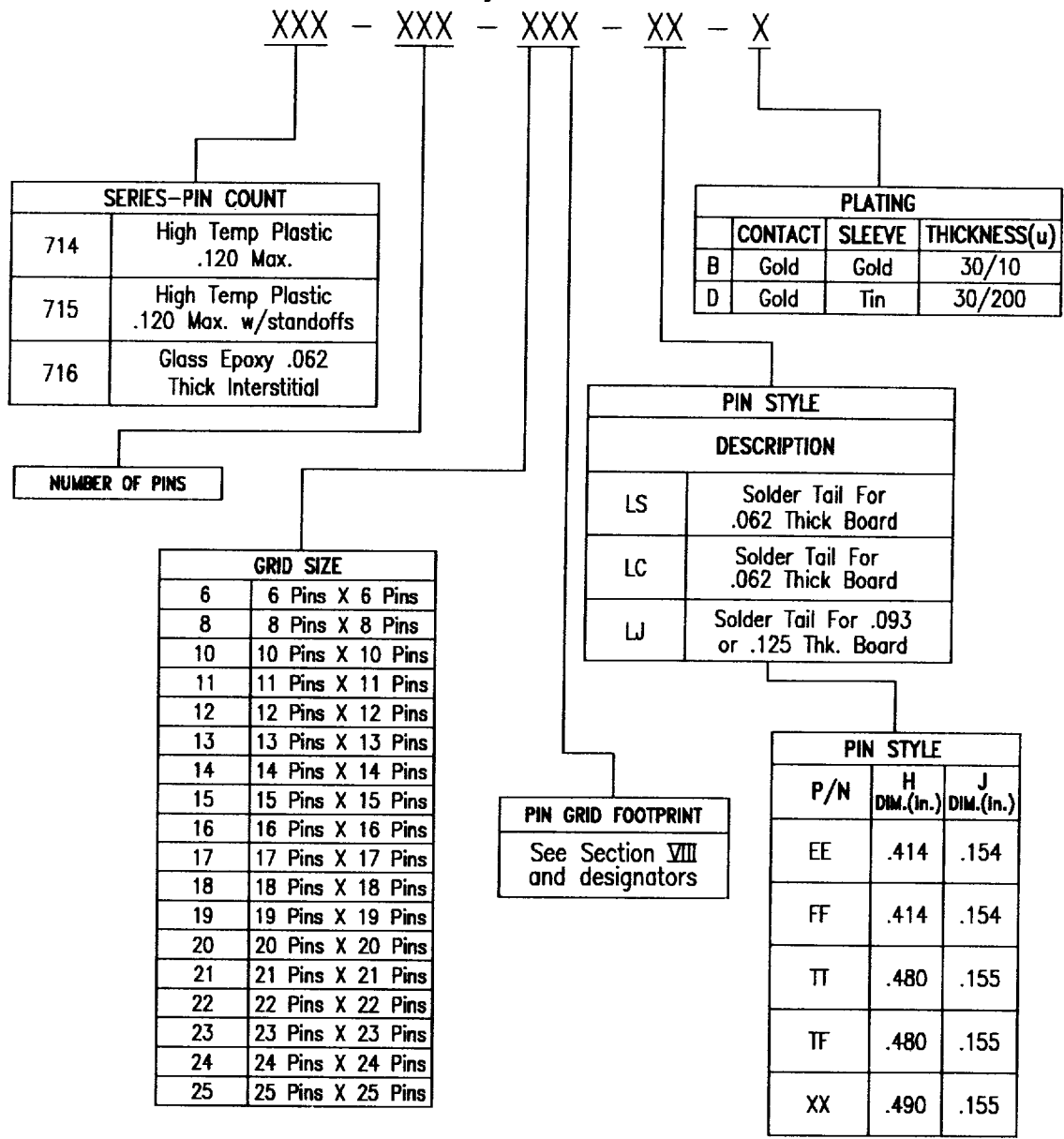
XX



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Pin Grid Array Precision Standard, Interstitial, and Adaptor PGA Sockets

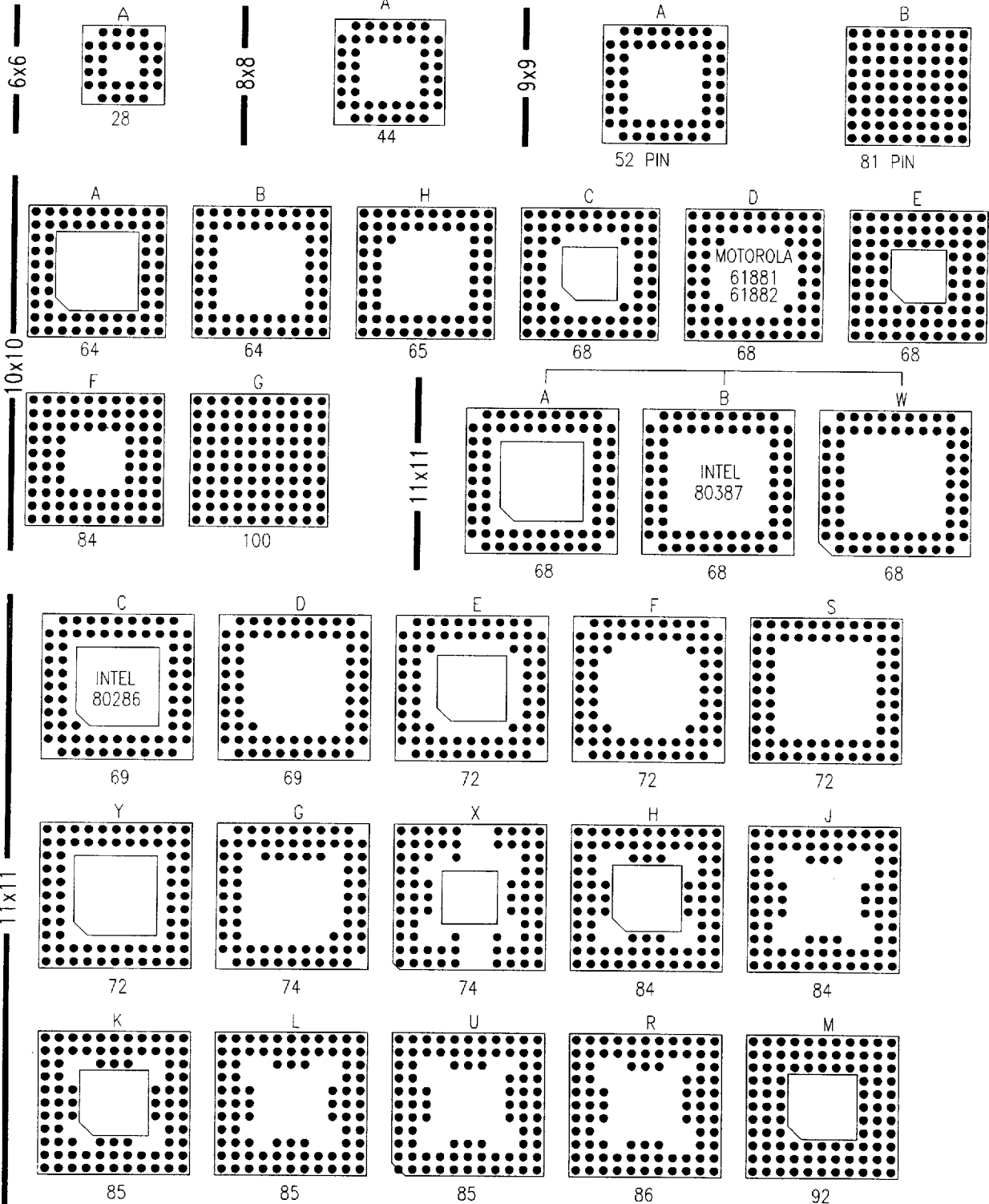
Part Number System For Pin Grid Arrays



LK LS LC LJ



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8.6

Additional Footprints available upon request.

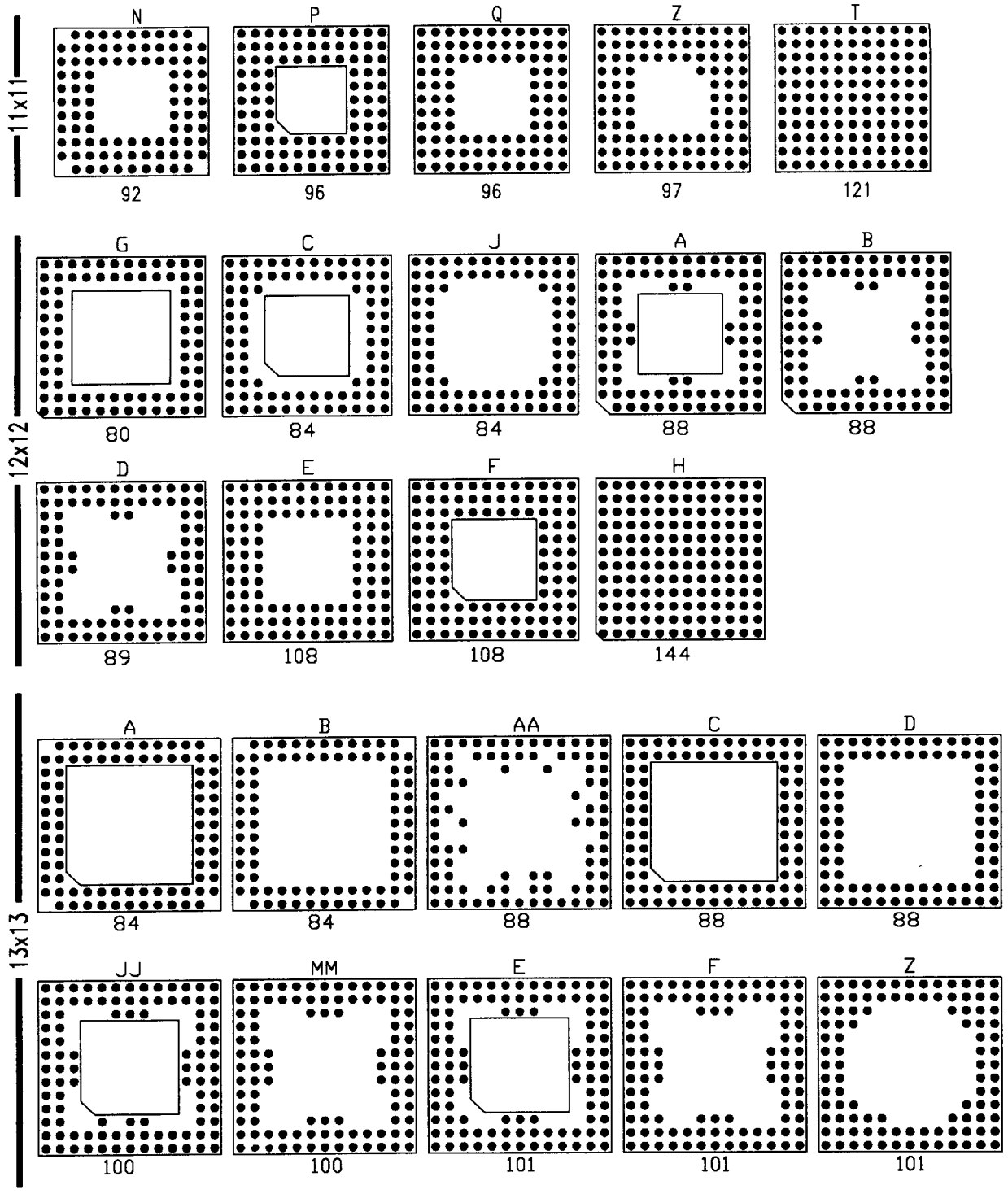
Garry Electronics

WPI a wire-pro co.

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Pin Grid Array *Standard Pin Grid Array Footprints*

8.7

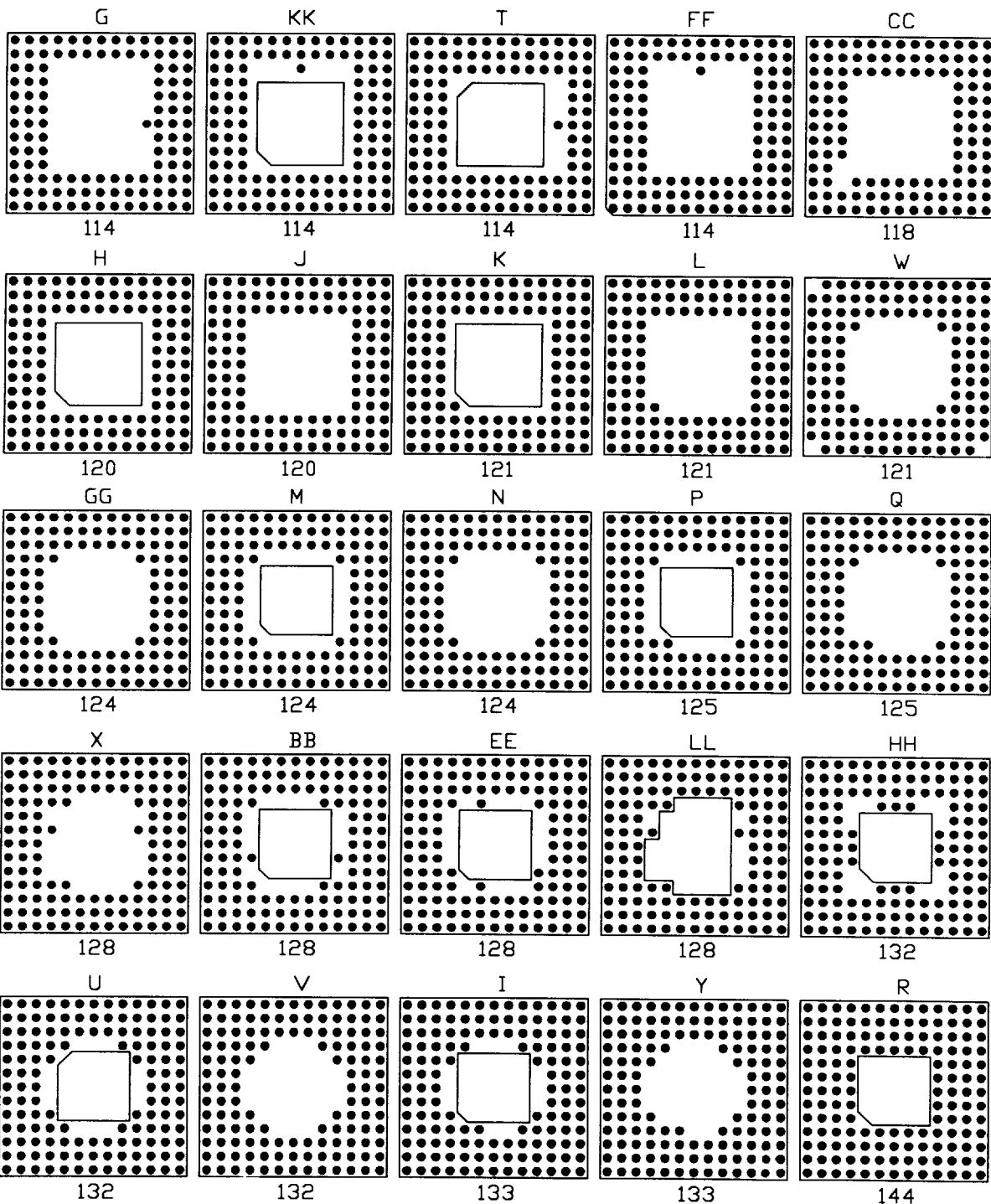


Additional Footprints available upon request.



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13x13



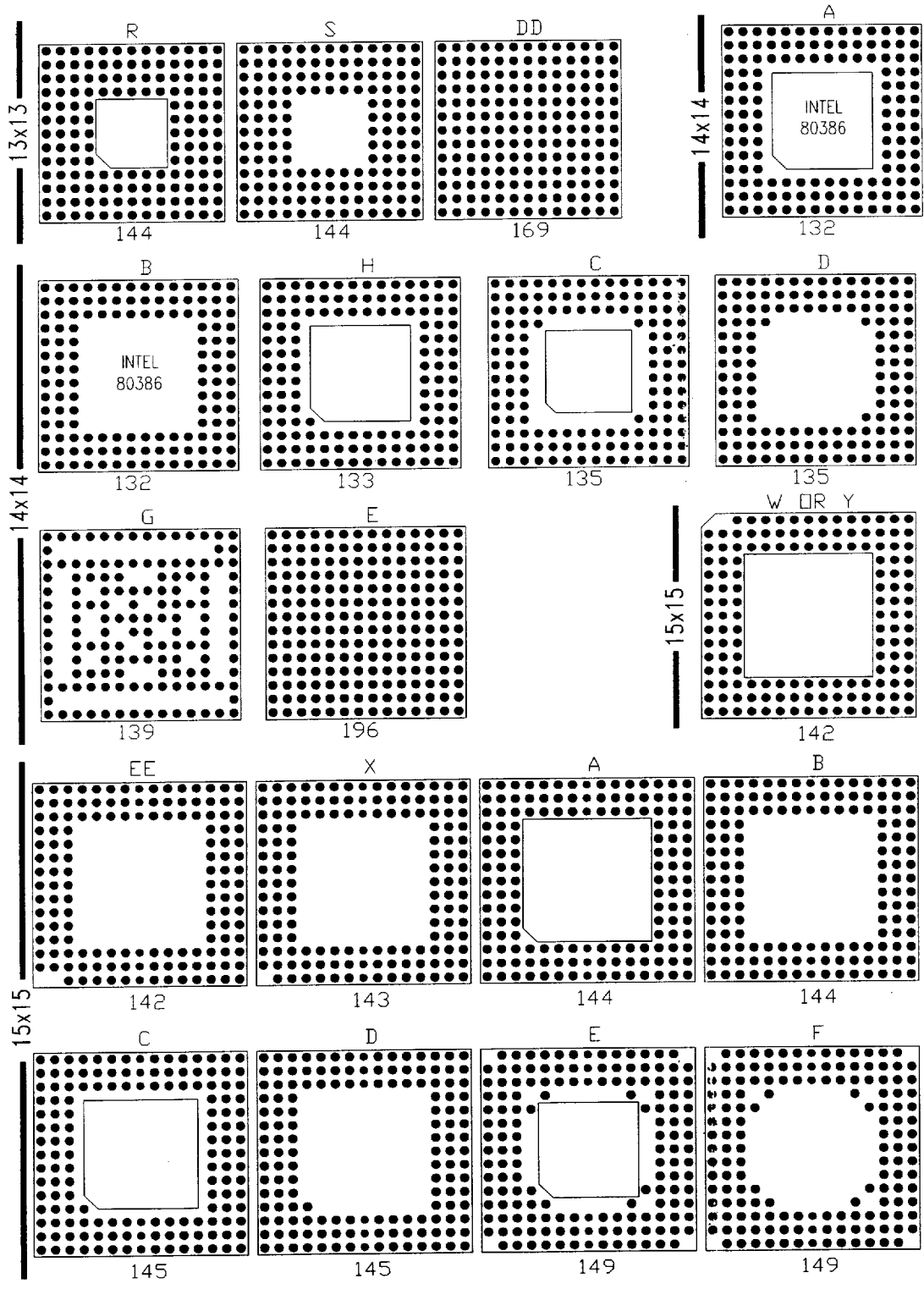
Additional Footprints available upon request.



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Pin Grid Array Standard Pin Grid Array Footprints

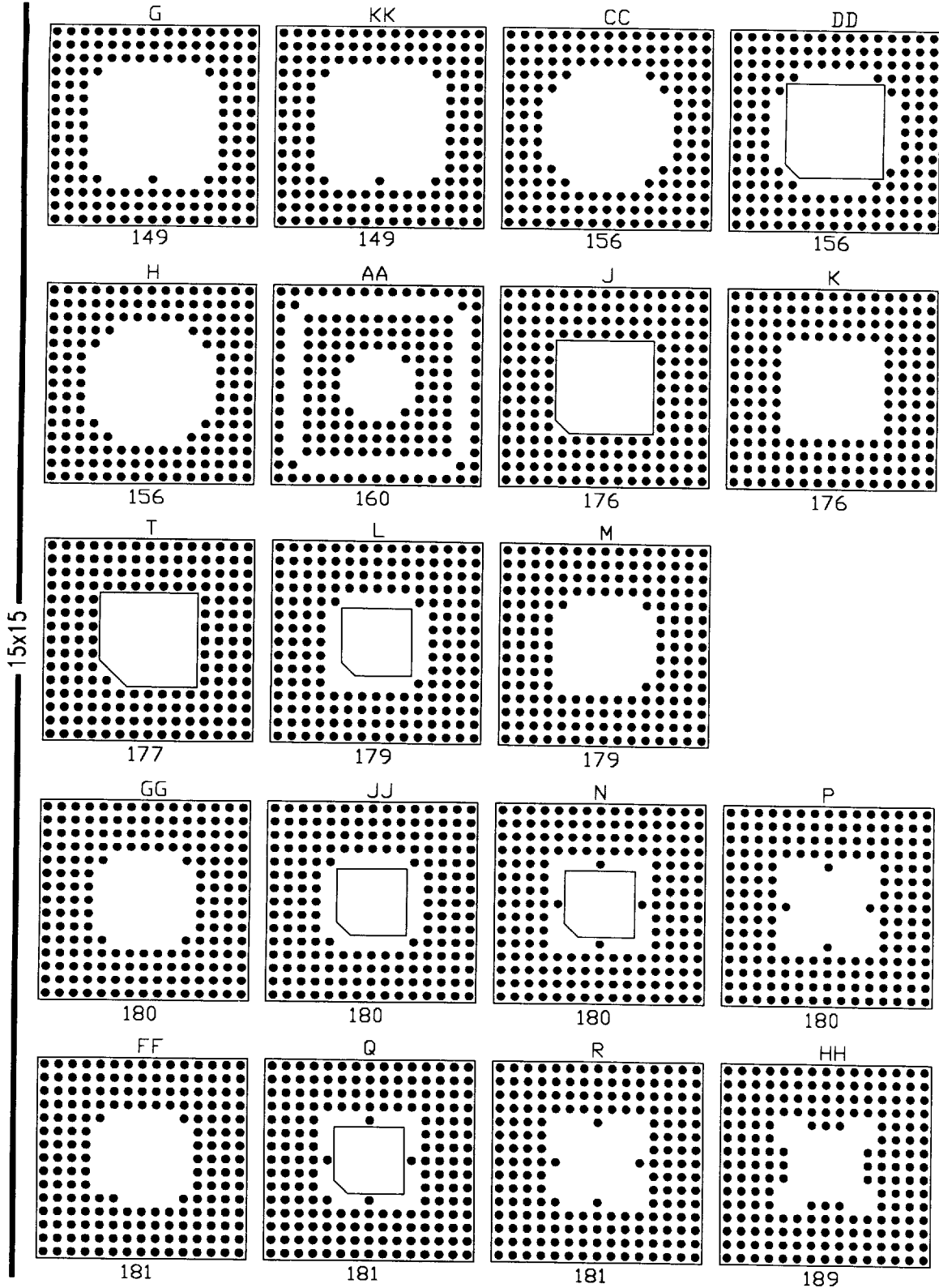
8.9



Additional Footprints available upon request.



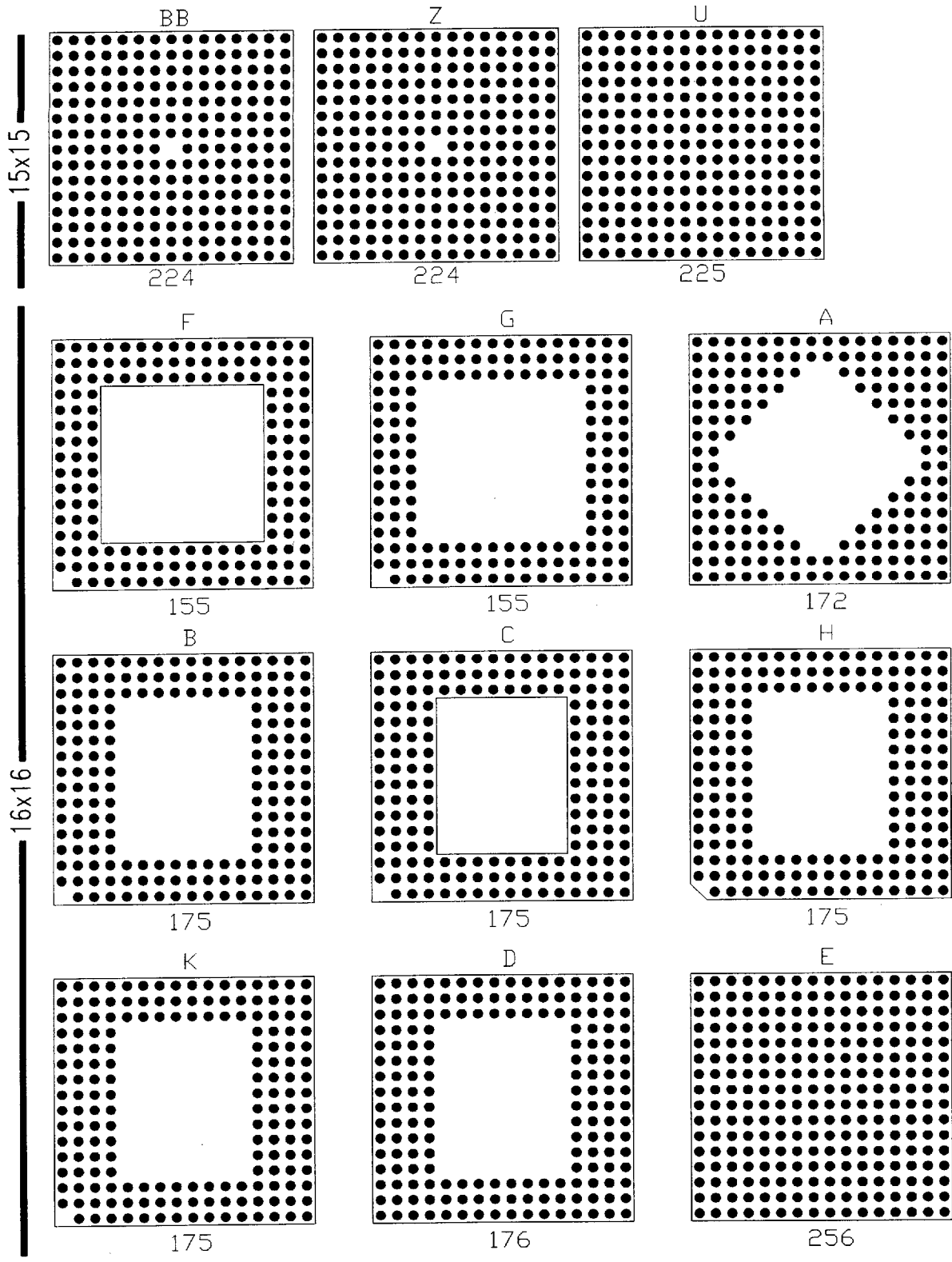
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Additional Footprints available upon request.



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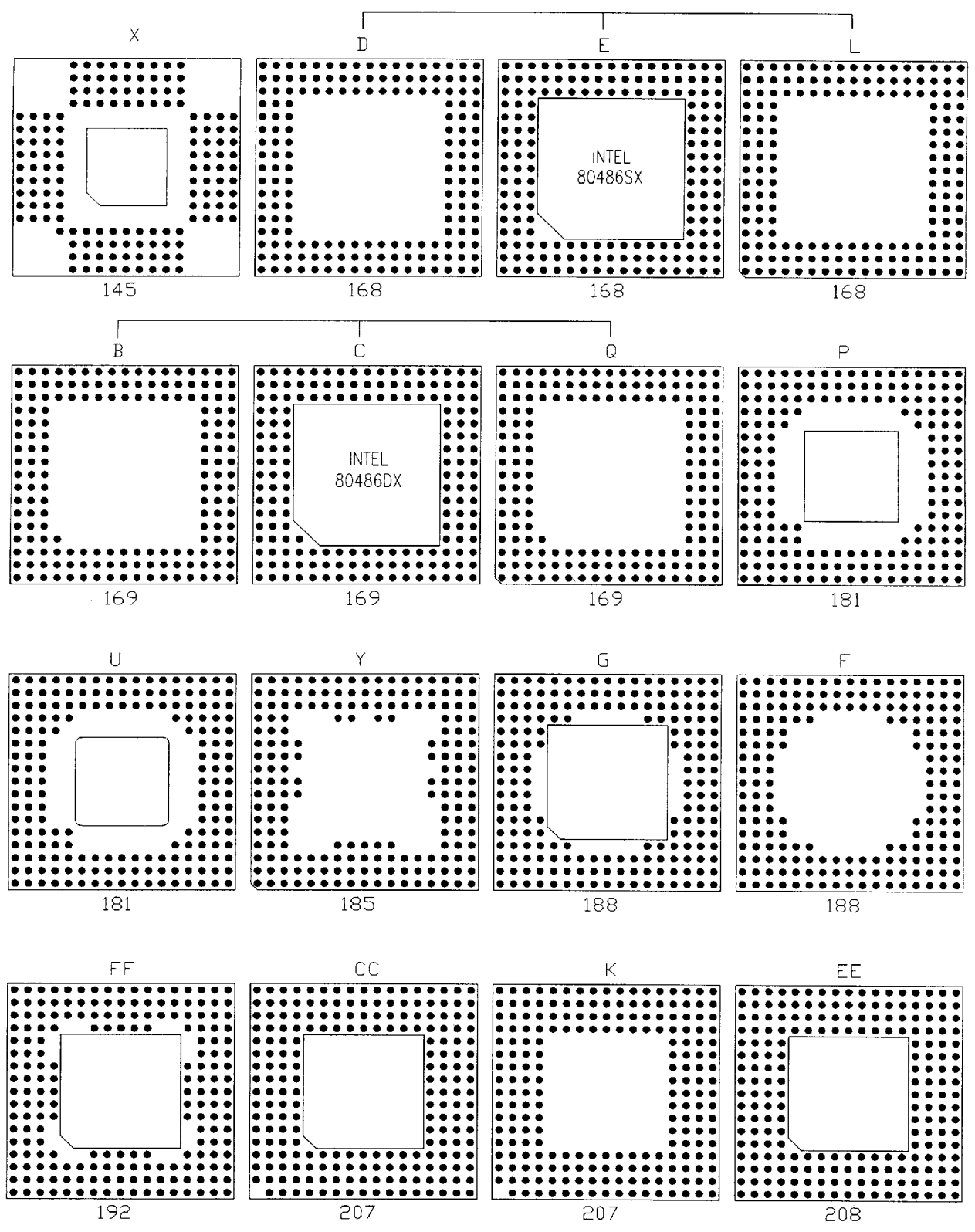
8.11

Additional Footprints available upon request.



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17x17

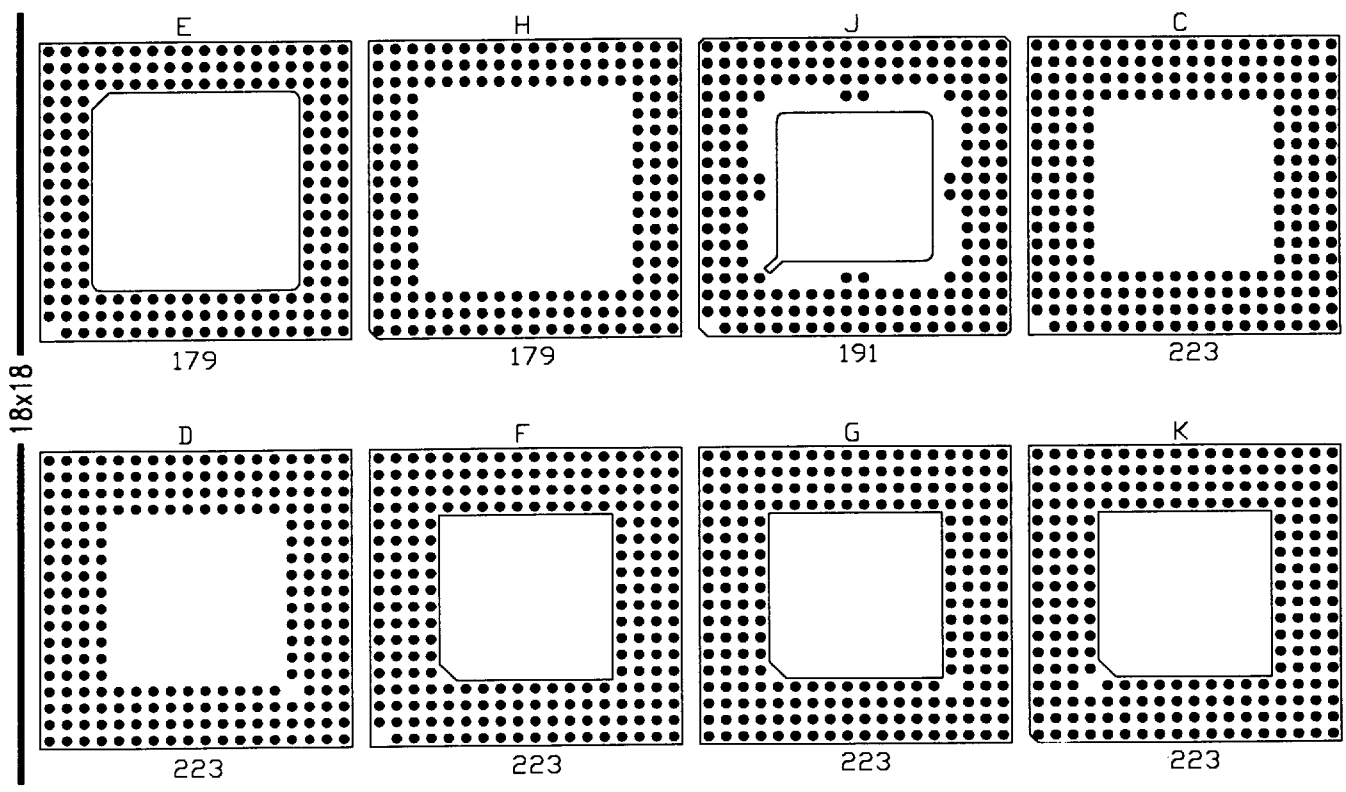
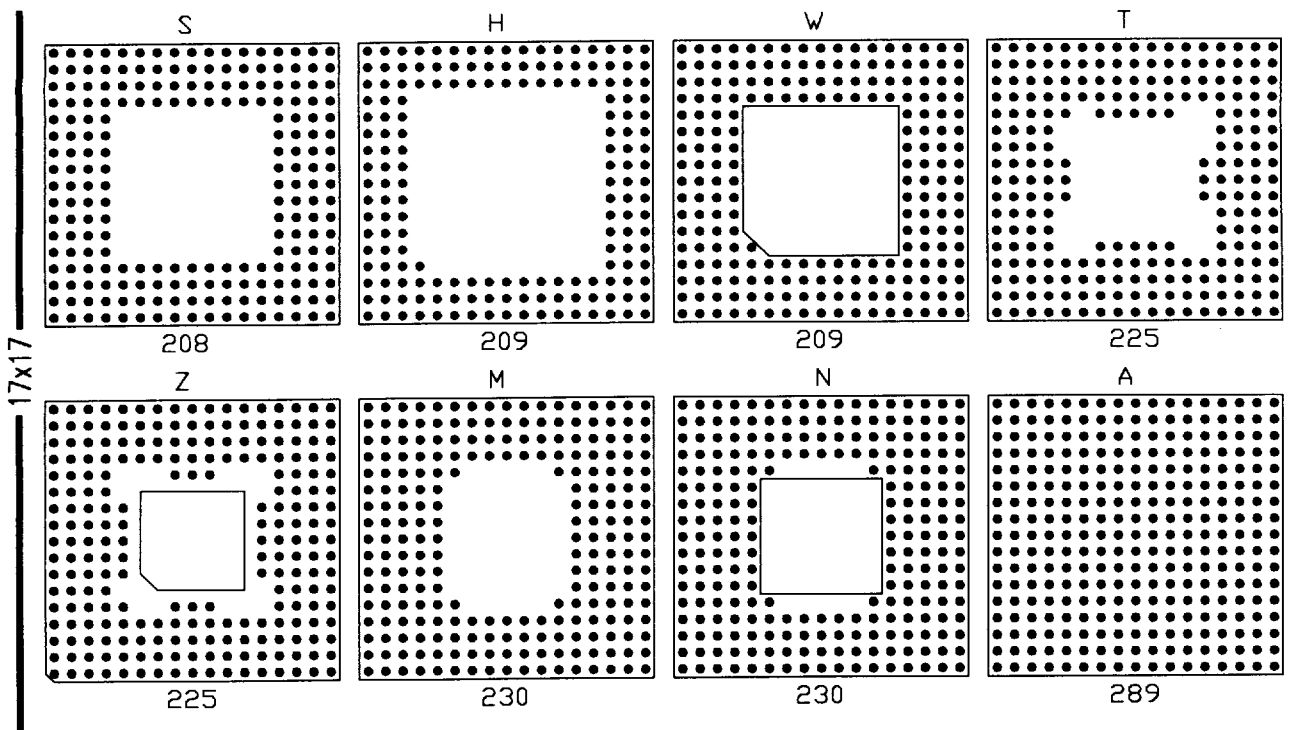


Additional Footprints available upon request.



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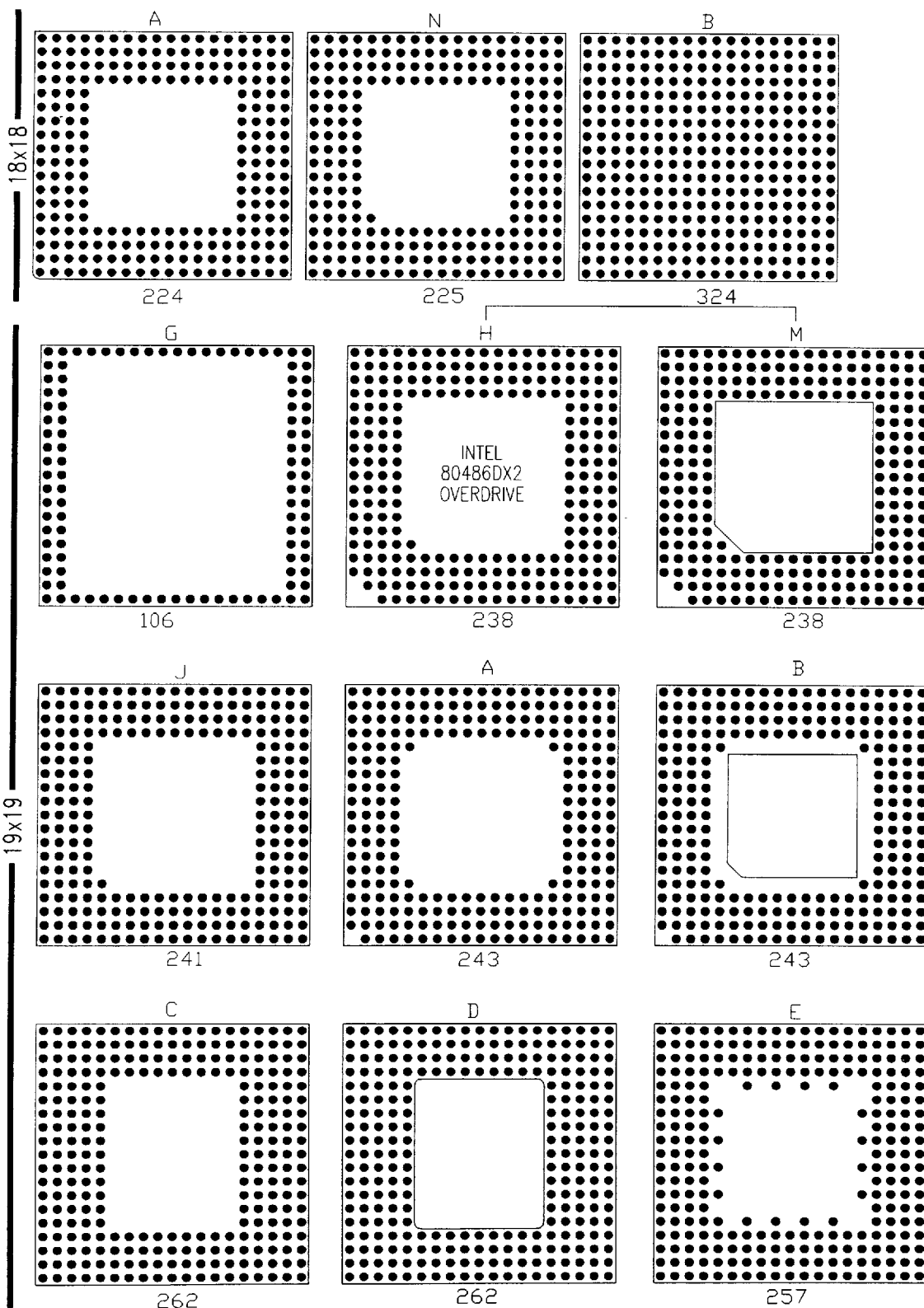
8.13



Additional Footprints available upon request.



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8.14

Additional Footprints available upon request.

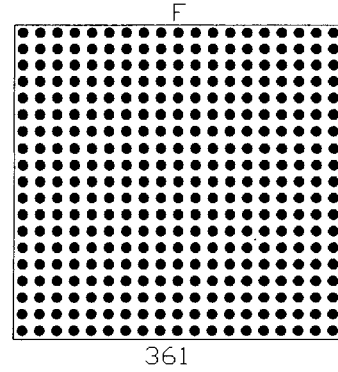
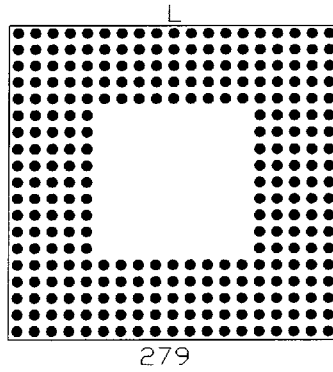
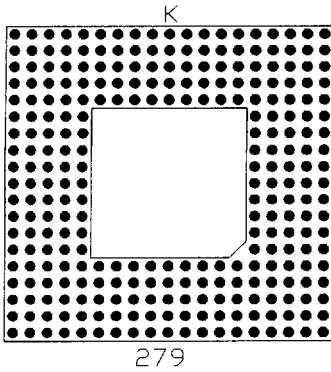


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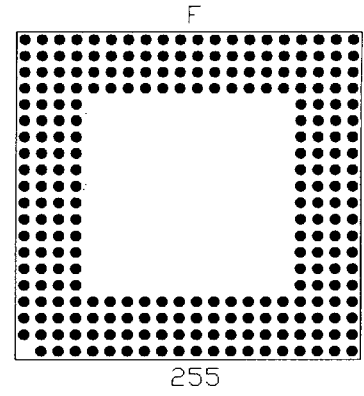
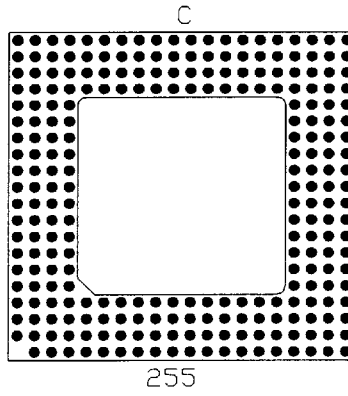
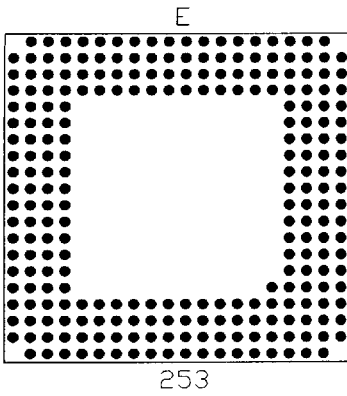
Pin Grid Array

Standard Pin Grid Array Footprints

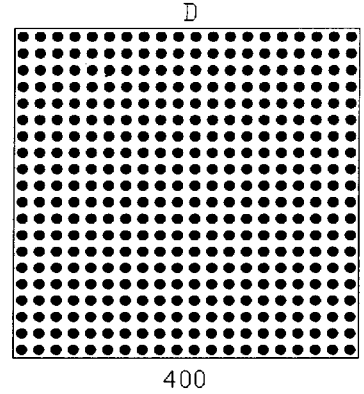
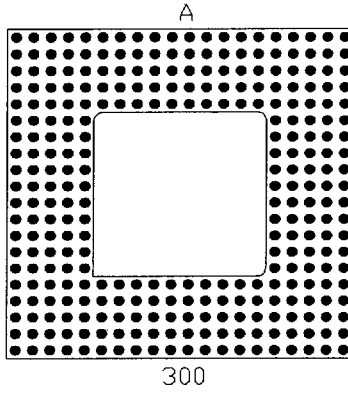
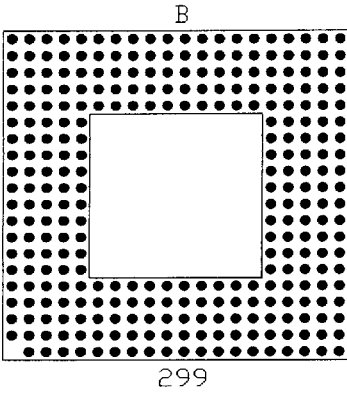
19x19



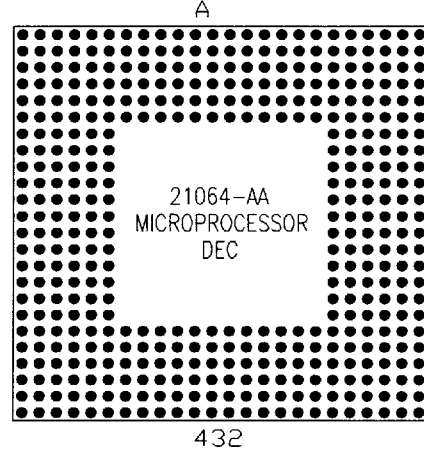
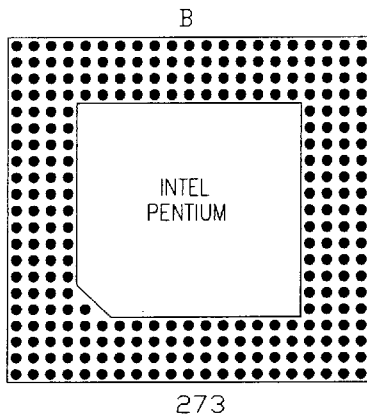
20x20



21x21



24x24



Additional Footprints available upon request.

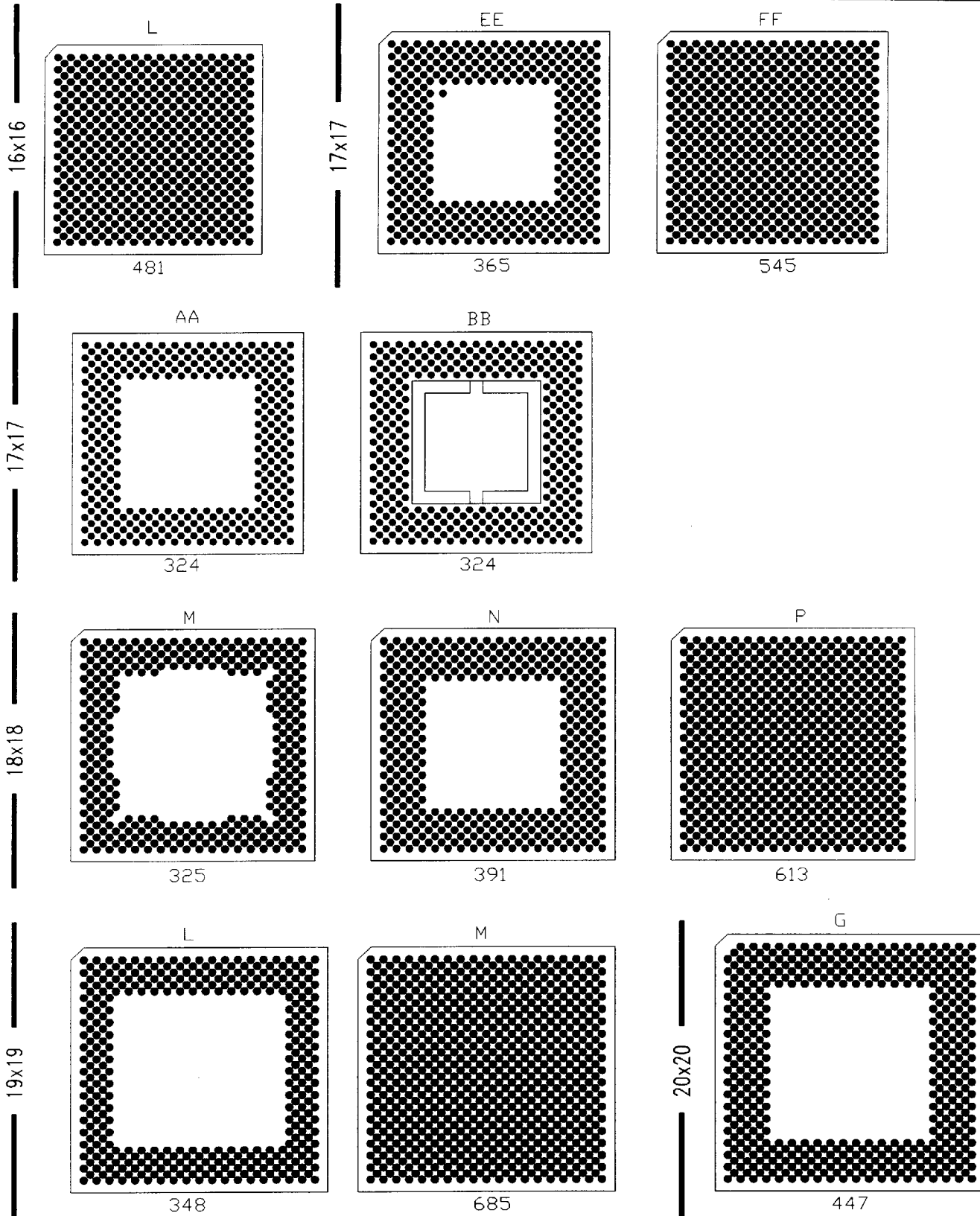


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8.15

Pin Grid Array

Interstitial Footprints



8.16

Additional Footprints available upon request.



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Specifications

Material Specifications for Screw Machine Products

Insulators

High temperature vapor phase and infrared compatible

Ryton (PPS)

Continuous use temp.	220°c
Heat deflection temp.(@ 264 PSI)	260°c
UL rating	94V-0

FR-4 Glass Epoxy

Continuous use temp.	140°c
Heat deflection temp.(@ 264 PSI)	149°c
UL rating	94V-0

Standard temperature wave solder compatible

Thermoplastic Polyester (PBT)

Continuous use temp.	140°c
Heat deflection temp.(@ 264 PSI)	204°c

Kapton

Temperature rating	-269°c to +400°c
Thickness	.005/.007
U/L94 VO rated	

Politrex

Temperature rating	-60°c to +150°c
Thickness	.005/.007
U/L94 VO rated	

Outer Body/Terminal

Brass - Alloy 360 Q hard per QQ-B-626

Contact Clips

Beryllium Copper (Be Cu) #25 hard heat treated

Plating Specifications

Plating Code "B"

Contact: 30 micro inches of gold per MIL-G-45204 over 50 micro inches min. of nickel per QQ-N-290

Outer Body: 10 micro inches of gold per MIL-G-204 type II over 50 micro inches min. of nickel per QQ-N-290

Plating Code "D"

Contact: 30 micro inches of gold per MIL-G-45204 type II over 50 micro inches min. of nickel per QQ-N-290

Outer Body: 200 micro inches min. of 90/10 tin lead per MIL-P-81728 type 1 over 50 micro inches min. of nickel per QQ-N-290

*Other Plating Requirements consult factory

Garry offers three (3) types of inter contact clips.

- *Standard insertion clip - 4 finger (used on SIP/DIP products)*
- *Low insertion clip - 6 finger (used on PGA STD Pin counts)*
- *Ultra low insertion clip - 3 finger (used on high pin count PGA and Interstitial PGA)*

Insertion/withdrawal specification using a .018 dia. polished steel pin

	<i>INS</i>	<i>withdrawal</i>
STD 4 finger clip	8 oz max	3 oz min
Low insertion clip	2 oz max	0.5 oz min
Ultra low insertion clip	1 oz max	0.3 oz min

16.1

Typical performance characteristics for Screw Machine Products

- *Contact Resistance (MIL-STD-202 E method 302)*
10 MIL/ohms max percontact
- *Contact Rating (for 10 C temperature rise)*
3 Amps
- *Capacitance (MIL-STD-202E method 302)*
0.2 PF
- *Insulation Resistance (MIL-STD-1344 method 3003.1)*
10,000 Megaohms(min)
- *Dielectric Withstanding Voltage(DWV) (MIL-STD-1344 method 3001.1)*
1000 VAC(RMS)
- *Vibration (MIL-STD-1344 method 2005.1 condition III)*
- *Shock (MIL-STD-1344 method 2004.1 condition G)*
- *Solderability (MIL-STD-202 method 208)*



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