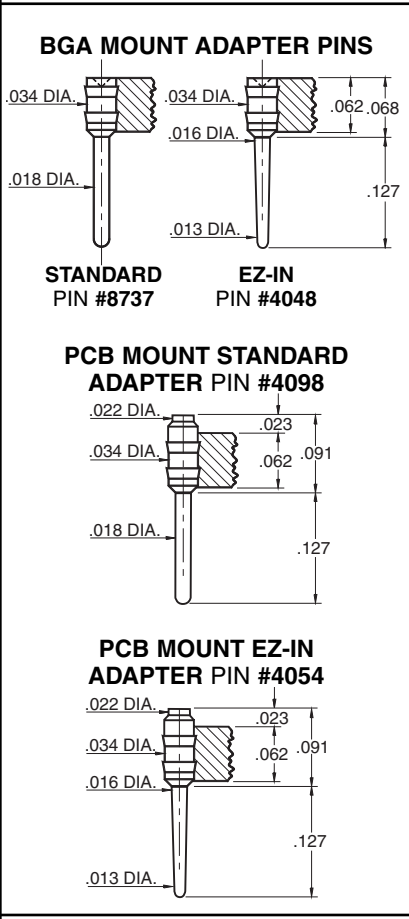
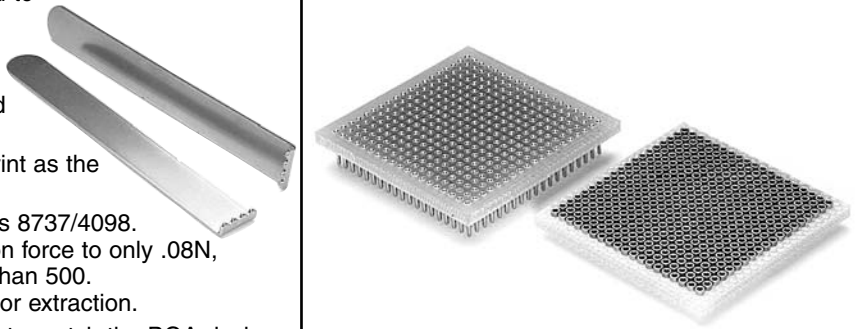


- BGA adapter/socket systems are a reliable way to make BGAs pluggable, they may also be used as a high density board-to-board interconnect.
- The BGA device is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB); and then either one can be plugged into a 8214 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is .40N per pin for standard pins 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500. A pry-bar tool (part #828-01-010) is available for extraction.
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board.



Ordering Information

FOR BGA MOUNT ADAPTER PINS

Series	Plating Code	Window
5 8 7	1 0	4 3 7
5 4 0	1 0	4 4 8

FOR PCB MOUNT STANDARD ADAPTER PIN

5 4 0	1 0	4 9 8
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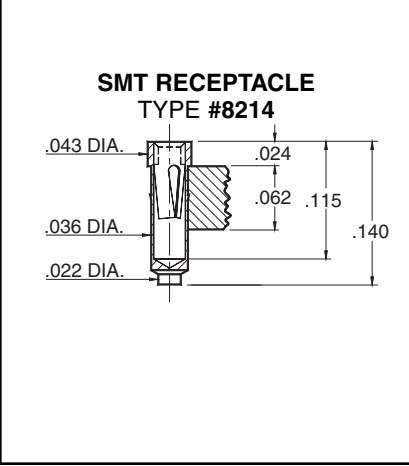
FOR PCB MOUNT EZ-IN ADAPTER PIN

5 4 0	1 0	4 5 4
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No. of pins Grid size Pattern #

Determined from footprint pattern pages 113 to 115

PLATING CODE XX=	10◇		
Pin Plating	10μ" Au		



FOR BGA FEMALE SOCKET

Series	Plating Code	Window
5 8 2	1 1	4 1 4

No. of pins Grid size Pattern #

Determined from footprint pattern pages 113 to 115

SPECIFY PLATING CODE XX=	11◇		
Sleeve (Pin)	10μ" Au		
Contact (Clip)	10μ" Au		



BALL GRID ARRAY FOOTPRINTS (.050" GRID)
 Top view shown. Many other standard footprints are available.
 Visit www.mill-max.com for a complete selection.

15 X 15	15 X 15	15 X 15	16 X 16	16 X 16	16 X 16
XXX-XX-088-07-005	XXX-XX-132-08-005	XXX-XX-225-07-006	XXX-XX-240-08-005	XXX-XX-255-08-005	XXX-XX-256-08-005

17 X 17	17 X 17	17 X 17	19 X 19	19 X 19
XXX-XX-216-09-005	XXX-XX-233-09-005	XXX-XX-289-09-000	XXX-XX-357-09-005	XXX-XX-361-10-005

20 X 20	20 X 20	20 X 20	20 X 20	20 X 20
XXX-XX-256-10-005	XXX-XX-272-10-005	XXX-XX-292-10-005	XXX-XX-308-10-005	XXX-XX-316-10-005

20 X 20	20 X 20	20 X 20	21 X 21	22 X 22
XXX-XX-336-10-005	XXX-XX-336-10-007	XXX-XX-400-10-005	XXX-XX-441-11-005	XXX-XX-472-11-005

23 X 23	23 X 23	23 X 23	24 X 24	24 X 24
XXX-XX-304-11-005	XXX-XX-329-12-005	XXX-XX-433-12-005	XXX-XX-256-12-006	XXX-XX-576-12-005



BALL GRID ARRAY FOOTPRINTS (.050" GRID)
 Top view shown. Many other standard footprints are available.
 Visit www.mill-max.com for a complete selection.

25 X 25	25 X 25	26 X 26	26 X 26
XXX-XX-444-13-005	XXX-XX-624-13-005	XXX-XX-352-13-005	XXX-XX-356-13-006

26 X 26	26 X 26	26 X 26	26 X 26
XXX-XX-388-13-005	XXX-XX-420-13-005	XXX-XX-456-13-005	XXX-XX-484-13-005

26 X 26	27 X 27	27 X 27	28 X 28
XXX-XX-676-13-005	XXX-XX-416-14-005	XXX-XX-504-14-005	XXX-XX-524-14-005

29 X 29	29 X 29	29 X 29	29 X 29
XXX-XX-480-15-005	XXX-XX-503-15-005	XXX-XX-576-15-007	XXX-XX-829-15-005



BALL GRID ARRAY FOOTPRINTS (.050" GRID)
 Top view shown. Many other standard footprints are available.
 Visit www.mill-max.com for a complete selection.

30 X 30	30 X 30	30 X 30	30 X 30
XXX-XX-576-15-005	XXX-XX-596-15-005	XXX-XX-644-15-005	XXX-XX-656-15-005

31 X 31	31 X 31	31 X 31	31 X 31
XXX-XX-520-16-005	XXX-XX-665-16-005	XXX-XX-672-16-005	XXX-XX-736-16-005

31 X 31	31 X 31	32 X 32	32 X 32
XXX-XX-768-16-005	XXX-XX-940-16-005	XXX-XX-540-16-005	XXX-XX-959-16-005

33 X 33	34 X 34	35 X 35	35 X 35
XXX-XX-560-17-005	XXX-XX-731-17-005	XXX-XX-600-18-005	XXX-XX-652-18-005