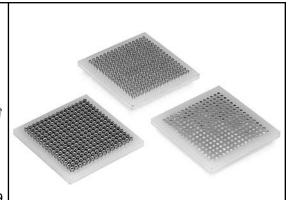
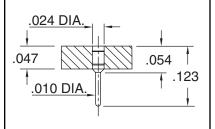


BALL GRID ARRAYS For 1mm Grid Male Pin Adapters & Female Socket

- 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 9929 adapter (or a 7929 adapter is soldered to a PCB); and then either one can be plugged into a 9928 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is only .41N per pin, and 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.
- Mill-Max offers the option of having the solder surfaces of the 7929 adapter and 9928 socket pre-tinned.



BGA MOUNT ADAPTER PIN TYPE 9929





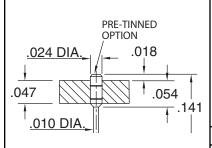
FOR BGA MOUNT ADAPTERS

Locate footprint pattern from page 111.4, the middle 8 digits of the part number will be located under the pattern.

	par		
Series	Plating	'	Window
	Code	-	
5 9 9	- 1 0 -		429
	No. of pins	Grid size	Pattern #

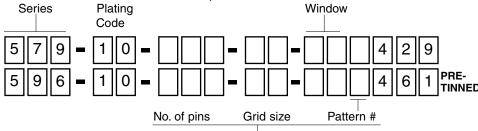
Determined from footprint pattern on page 111.4

PRINTED CIRCUIT MOUNT ADAPTER PIN TYPE 7929



FOR PCB MOUNT ADAPTERS

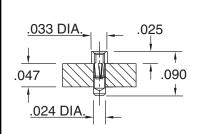
Locate footprint pattern from page 111.4, the middle 8 digits of the part number will be located under the pattern.



Determined from footprint pattern on page 111.4

PLATING CODE XX= 10
Pin Plating 10μ" Au

SURFACE MOUNT RECEPTACLE TYPE 9928



FOR FEMALE SOCKETS

Locate footprint pattern from page 111.4, the middle 8 digits of the part number will be located under the pattern.

Series	Plating Code		Wi	ndow	
5 9 9 -	1 1 -	•	· 🔲 🗀 🗀	4 2 8	3
5 9 6 -	1 1 -	· 🗆 🗆 🗕 -	· 🗌 🗌 - 🗀	4 4 5	PRE- TINNED
		No. of pins	Grid size	Pattern #	

Determined from footprint pattern on page 111.4

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

Series 5X9

BALL GRID ARRAY FOOTPRINTS (1mm GRID)

Top view shown. Many other standard footprints are available.

Visit www.mill-max.com for a complete selection.

8 X 8 8 X 8 10 X 10 11 X 15 14 X 14 14 X 14 X 14 X 14 X 14	8 X 8	= = -								
XXX-XX-054-04-005 XXX-XX-064-04-000 XXX-XX-100-05-000 XXX-XX-165-01-005 XXX-XX-166-07-005 XXX-XX-196-07-000 16 X 16	XXX XX - 054 - 04 - 005 XXX - XX - 064 - 04 - 000 XXX - XX - 106 - 07 - 005 XXX - XX - 168 - 07 - 005 XXX - XX - 196 - 07 - 005 XXX - XX - 196 - 07 - 005 XXX - XX - 196 - 07 - 005 XXX - XX - 196 - 07 - 005 XXX - XX - 196 - 07 - 005 XXX - XX - 196 - 07 - 005 XXX - XX - 196 - 07 - 005 XXX - XX - 106 - 07 - 005 XXX - XX - 106 - 07 - 005 XXX - XX - 106 - 07 - 005 XXX - XX - 208 - 006 - 001 XXX - XX - 256 - 08 - 007 XXX - XX - 324 - 11 - 005 XXX - XX - 376 - 11 - 005 XXX - XX - 484 - 11 - 005 XXX - XX - 376 - 11 - 005 XXX - XX - 484 - 11 - 005 X		0000000 0000000 0000000 0000000 0000000					0000000		
16 X 16	16 X 16									
16 X 16	16 X 16	XXX-XX-054-04-005	XXX-XX-0	64-04-000	XXX-XX-100-05-000	XXX-XX-165-01-005	XXX-XX-1	68-07-005	XXX-XX-196-07-000	
XXX-XX-208-08-001 XXX-XX-256-08-007 XXX-XX-324-09-000 XXX-XX-324-11-005 XXX-XX-376-11-005 XXX-XX-484-11-005	XXX-XX-208-08-001 XXX-XX-256-08-007 XXX-XX-324-09-000 XXX-XX-324-11-005 XXX-XX-376-11-005 XXX-XX-484-11-00 26 X 26	0000 000000000000000000000000000000000	0000000000 00000000000 0000000000000							
26 X 26	26 X 26									
26 X 26	26 X 26	XXX-XX-208-08-001	XXX-XX-2	56-08-007	XXX-XX-324-09-000	XXX-XX-324-11-005	XXX-XX-3	76-11-00 <u>5</u>	XXX-XX-484-11-005	
XXX-XX-352-13-007 XXX-XX-388-13-007 XXX-XX-484-13-005 XXX-XX-672-13-005 26 X 26 26 X 26 30 X 30 33 X 33	XXX-XX-352-13-007 XXX-XX-388-13-007 XXX-XX-484-13-005 XXX-XX-672-13-005 26 X 26 26 X 26 30 X 30 33 X 33 XXX-XX-675-13-005 XXX-XX-676-13-000 XXX-XX-432-15-001 XXX-XX-560-17-001					26 V 26				
26 X 26 26 X 26 30 X 30 33 X 33	26 X 26 26 X 26 30 X 30 33 X 33 XXX-XX-675-13-005 XXX-XX-676-13-000 XXX-XX-432-15-001 XXX-XX-560-17-001		007	2007				V////		
26 X 26 26 X 26 30 X 30 33 X 33	26 X 26 26 X 26 30 X 30 33 X 33 XXX-XX-675-13-005 XXX-XX-676-13-000 XXX-XX-432-15-001 XXX-XX-560-17-001	XXX-XX-352-13	-007	XXX-	-XX-388-13-007	XXX-XX-484-13	3-005	XXX	-XX-6/2-13-005	
	XXX-XX-675-13-005 XXX-XX-676-13-000 XXX-XX-432-15-001 XXX-XX-560-17-001									
XXX-XX-675-13-005 XXX-XX-676-13-000 XXX-XX-432-15-001 XXX-XX-560-17-001										
	34 X 34 34 39 X 39 39 X 39	XXX-XX-675-13	-005	XXX-	-XX-676-13-000	XXX-XX-432-15	XXX-XX-432-15-001		XXX-XX-560-17-001	
	34 X 34 34 39 X 39 39 X 39									
34 X 34 34 39 X 39 39 X 39	1 00,700	34 X 34			34 X 34	39 X 39		39 X 39		
	XXX-XX-580-17-005 XXX-XX-680-17-005 XXX-XX-560-20-007 XXX-XX-680-20-005			XXX-	-XX-680-17-005	XXX-XX-560-20	-007	XXX		