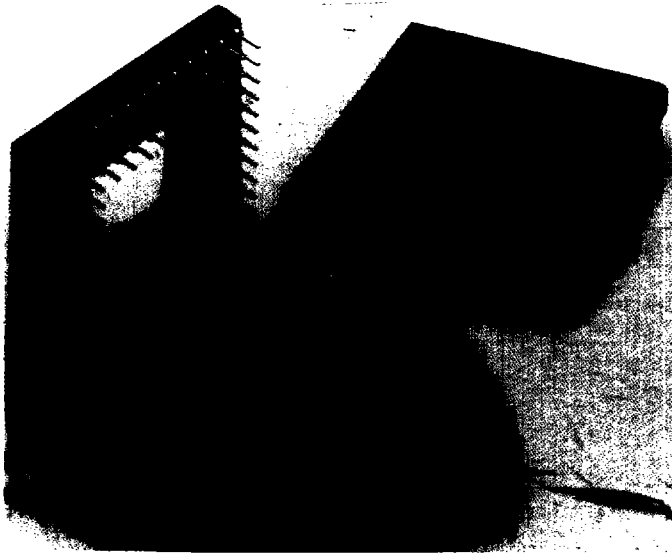


# PGA Socket 709-8000 Series



**Material:** Insulator: Polyphenylene (PPS) UL94V-0  
Colour, Black  
Contact: Body, brass 0.0002", tin over  
0.0001" Cu Clip, Beryllium  
Copper, 0.00001" gold over Nickel

**Electrical:** Contact resistance; 10 milli Ohms max  
Insulation resistance; 5 giga Ohms at 500 VDC  
Dielectric withstanding voltage; 1000 VAC (RMS) min.  
Contact capacitance; 2pF max.  
Current rating; 1 Amp

**Mechanical:** Insertion force; 98g average per contact  
Extraction force; 35g average per contact  
(NB; ins/ext forces measured using  
a 0.018" dia pin)

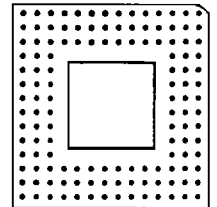
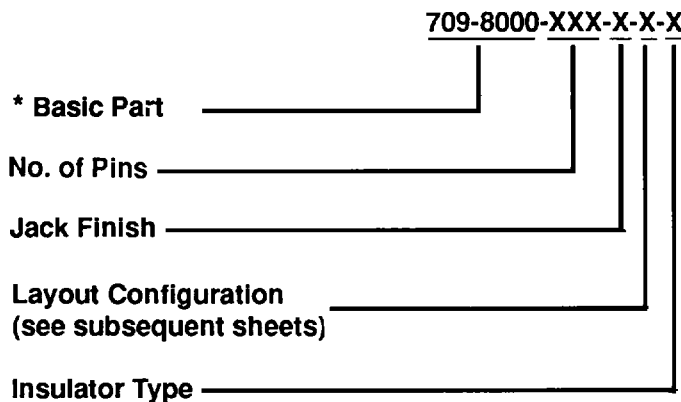
**Environment:** Operating temperature; -55°C to + 175°C

Cambion's PGA socket is a high quality moulded package with low insertion force six leaf contacts in a high precision turned body. The product is also available in a high temperature rigid glass epoxy insulator when the situation dictates. All standard configurations are available with a custom capability where formats are not available as standard.

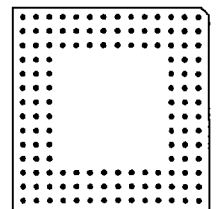
Insulator Type Code	
Dash	Type
-0	Closed Centre
-1	Open Centre
-2	Matrix Hole

\* 709-8000 Moulded insulator  
709-8100 Glass epoxy insulator

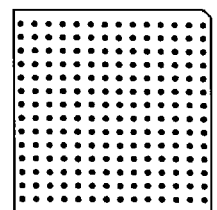
## HOW TO ORDER



-1 Open Center Type



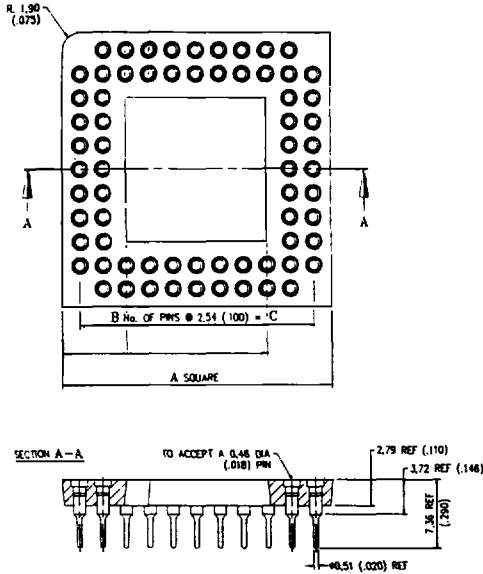
-0 Solid Center Type



-2 Matrix Hole Type

Jack Finish Code		
Dash	Pin Finish	Clip Finish
-3	.25 Microns Gold (10µ")	.25 Microns Gold (10µ")
-4	5 Microns Tin (200µ")	5 Microns Tin (200µ")
-6	5 Microns Tin (200µ")	.25 Microns Gold (10µ")

# Dimension Chart (STANDARDS) see subsequent pages



FABRICATION TABLE				
PART No	No PINS	A DIM $\phi 4.25$	B	C DIM $\phi 4.25$
709-8000-064-X-0-X	64	26.67 (1.050)	10	22.86 (.900)
709-8000-068-X-0-X	68	29.21 (1.150)	11	25.40 (1.000)
709-8000-068-X-1-X	68	26.67 (1.050)	10	22.86 (.900)
709-8000-072-X-0-X	72	29.21 (1.150)	11	25.40 (1.000)
709-8000-074-X-2-X	74	29.21 (1.150)	11	25.40 (1.000)
709-8000-080-X-0-X	80	31.75 (1.250)	12	27.94 (1.100)
709-8000-084-X-0-X	84	34.29 (1.350)	13	30.48 (1.200)
709-8000-084-X-1-X	84	31.75 (1.250)	12	27.94 (1.100)
709-8000-084-X-2-X	84	26.67 (1.050)	10	22.86 (.900)
709-8000-084-X-3-X	84	29.21 (1.150)	11	25.40 (1.000)
709-8000-085-X-1-X	85	29.21 (1.150)	11	25.40 (1.000)
709-8000-088-X-0-X	88	34.29 (1.350)	13	30.48 (1.200)
709-8000-088-X-1-X	88	31.75 (1.250)	12	27.94 (1.100)
709-8000-092-X-0-X	92	29.21 (1.150)	11	25.40 (1.000)
709-8000-096-X-0-X	96	29.21 (1.150)	11	25.40 (1.000)
709-8000-100-X-0-2	100	26.67 (1.050)	10	22.86 (.900)
709-8000-101-X-1-X	101	34.29 (1.350)	13	30.48 (1.200)
709-8000-114-X-2-X	114	34.29 (1.350)	13	30.48 (1.200)
709-8000-120-X-0-X	120	34.29 (1.350)	13	30.48 (1.200)
709-8000-121-X-1-X	121	34.29 (1.350)	13	30.48 (1.200)
709-8000-121-X-2-2	121	29.21 (1.150)	11	25.40 (1.000)
709-8000-124-X-0-X	124	34.29 (1.350)	13	30.48 (1.200)
709-8000-132-X-0-X	132	36.83 (1.450)	14	33.02 (1.300)
709-8000-132-X-1-X	132	34.29 (1.350)	13	30.48 (1.200)
709-8000-132-X-2-X	132	34.29 (1.350)	13	30.48 (1.200)
709-8000-133-X-0-X	133	36.83 (1.450)	14	33.02 (1.300)
709-8000-135-X-0-X	135	36.83 (1.450)	14	33.02 (1.300)
709-8000-144-X-0-X	144	39.37 (1.550)	15	35.56 (1.400)
709-8000-144-X-1-2	144	31.75 (1.250)	12	27.97 (1.100)
709-8000-144-X-2-X	144	34.29 (1.350)	13	30.48 (1.200)
709-8000-145-X-0-X	145	39.37 (1.550)	15	35.56 (1.400)
709-8000-149-X-0-X	149	39.37 (1.550)	15	35.56 (1.400)
709-8000-149-X-1-X	149	39.37 (1.550)	15	35.56 (1.400)
709-8000-156-X-0-X	156	39.37 (1.550)	15	35.56 (1.400)
709-8000-168-X-0-X	168	44.45 (1.750)	17	40.64 (1.600)
709-8000-169-X-1-2	169	34.29 (1.350)	13	30.48 (1.200)
709-8000-172-X-2-X	172	41.91 (1.650)	16	38.10 (1.500)
709-8000-176-X-0-X	176	39.37 (1.550)	15	35.56 (1.400)
709-8000-179-X-0-X	179	39.37 (1.550)	15	35.56 (1.400)
709-8000-180-X-0-X	180	39.37 (1.550)	15	35.56 (1.400)
709-8000-181-X-2-X	181	39.37 (1.550)	15	35.56 (1.400)
709-8000-196-X-1-2	196	36.83 (1.450)	14	33.02 (1.300)
709-8000-289-X-1-2	289	44.45 (1.750)	17	40.64 (1.600)

## CUSTOM DESIGN

Indicate the location of the required pin

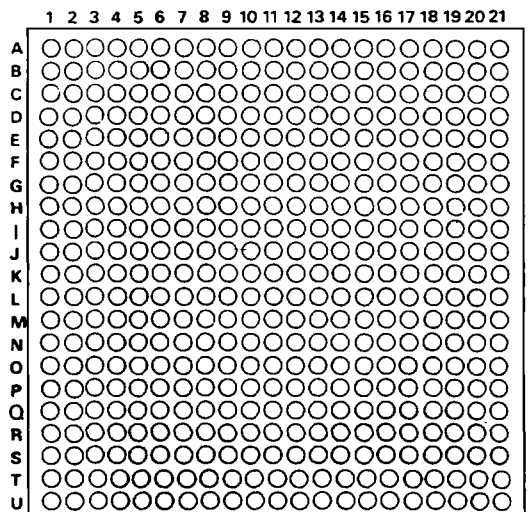
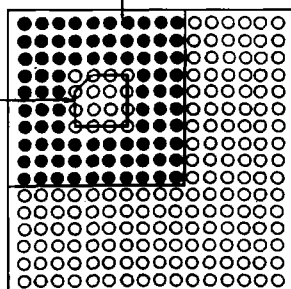
● = Required      ○ = Not required

## Design Specification

For configurations not shown in the following pages, please photostat this page, complete, and return to CAMBION.

Fill out the position of pins

Mark of the window



# PGA Socket - layout

064-X-0-X (10x10) 	068-X-1-X (10x10) 	068-X-0-X (11x11) 	084-X-2-0 (10x10) 	084-X-3-X (11x11) 
084-X-1-X (12x12) 	084-X-0-X (13x13) 	085-X-1-X (11x11) 	088-X-0-X (13x13) 	100-X-0-2 (10x10) 
101-X-1-X (13x13) 	114-X-2-X (13x13) 	120-X-0-X (13x13) 	121-X-2-2 (11x11) 	121-X-1-X (13x13) 
132-X-1-X (13x13) 	132-X-2-X (13x13) 	132-X-0-X (14x14) 	135-X-0-X (14x14) 	144-X-1-2 (12x12) 
144-X-0-X (15x15) 	145-X-0-X (15x15) 	168-X-0-X (17x17) 	169-X-0-X (17x17) 	169-X-1-2 (13x13) 
181-X-2-X (15x15) 	196-X-1-2 (14x14) 	289-X-1-2 (17x17) 		