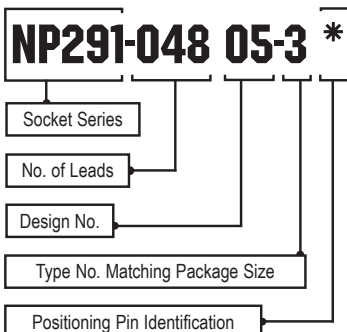
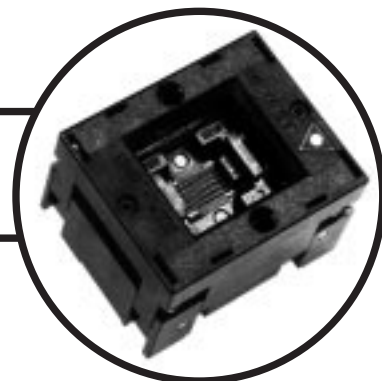


NP291 Series

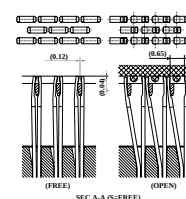
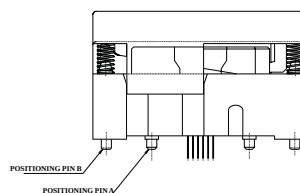
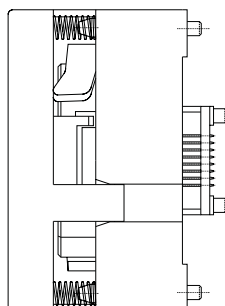
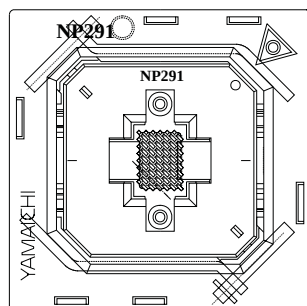


Characteristics

Insulation Resistance:	1,000MΩ minimum at 100 VDC
Withstanding Voltage:	100 VAC for 1 Minute
Contact Resistance:	100mΩ or less at 10mA/20mV (Initial)
Operating Temperature:	-55°C ~ +150°C

Material

Insulator:	PEI (Glass Filled)
Contact:	Beryllium Copper
Plating:	Gold over Nickel



Part Number	No. of Leads	Pitch	Socket Size		Package Size	
			Length	Width	Grid	Body
NP291-04002-G4-BF-*	40	0.75	27.5	22.5	5 X 8	5.74 X 7.48
NP291-04009-G4-BF-*	40	0.75	27.5	22.5	5 X 8	5.86 X 7.51
NP291-04805-1	48	0.75	32.0	32.0	6 X 8	9 X 15
NP291-04805-2	48	0.75	32.0	32.0	6 X 8	8 X 14
NP291-04805-3	48	0.75	32.0	32.0	6 X 8	6 X 8
NP291-04805-4	48	0.75	32.0	32.0	6 X 8	7.2 X 11.65
NP291-04805-5	48	0.75	32.0	32.0	6 X 8	6.2 X 13.75
NP291-04808-G4-BF-*	48	0.75	28.3	27.3	6 X 8	7.58 X 9.81
NP291-04812-G4-BF-*	48	0.75	28.3	27.3	6 X 8	6.50 X 7.91
NP291-07210-2-AC08904	54	0.75	28.4	33.9	8 X 9	7.67 X 16.37
NP291-07210-2-G4-BF-*	72	0.75	28.4	33.9	8 X 9	7.67 X 16.37
NP291-28807-*	288	0.75	40.0	40.0	22 X 22	18 X 18

Note: Please contact Yamaichi Electronics for other pin counts.

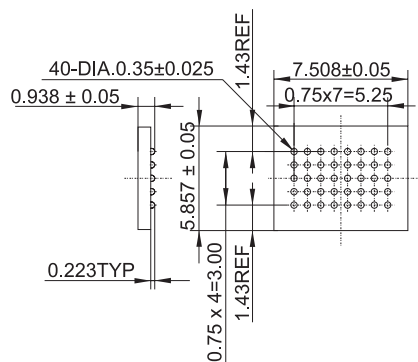
PC BOARD LAYOUTS

μ BGA™ (Open top)

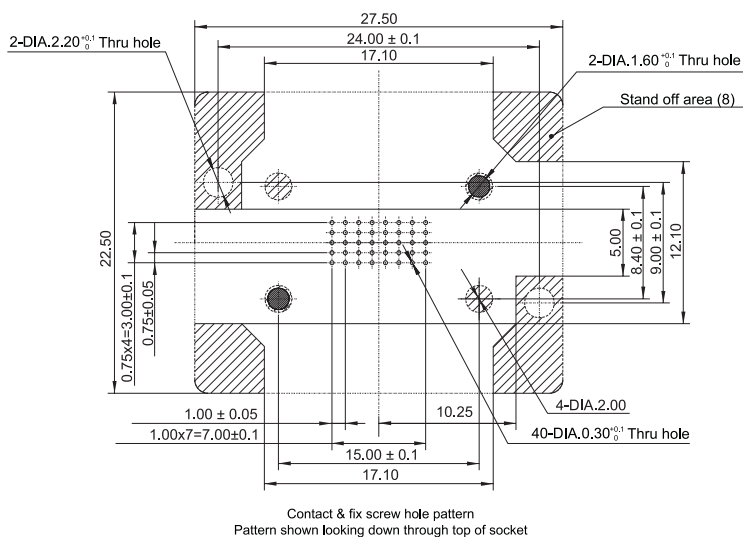
NP291 Series

NP291-04009-G4-BF-*

Matching IC Dimension Only

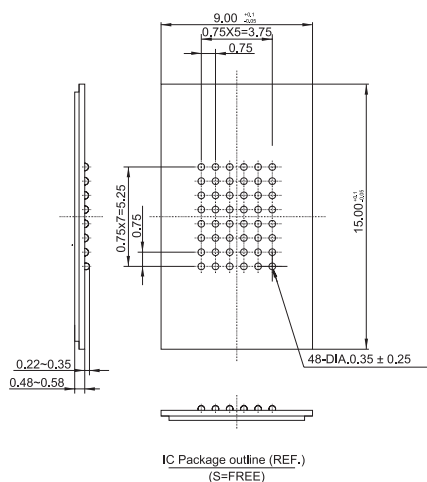


PC Board Layout (Reference Only)

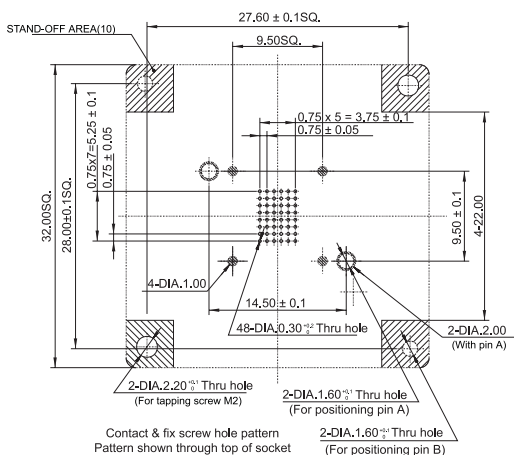


NP291-04805-1

Matching IC Dimension Only



PC Board Layout (Reference Only)

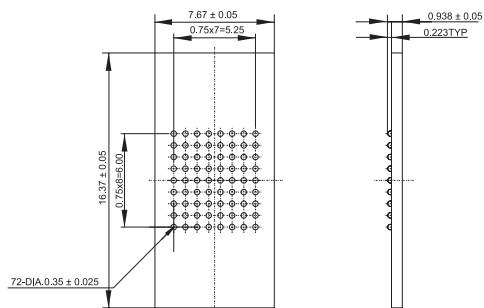


NP291 Series

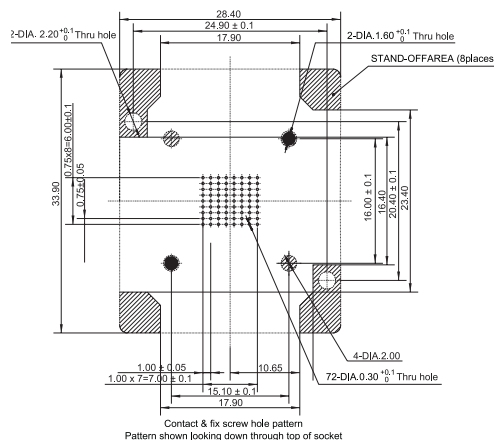
PC BOARD LAYOUTS

NP291-07210-2G4-BF-*

Matching IC Dimension Only

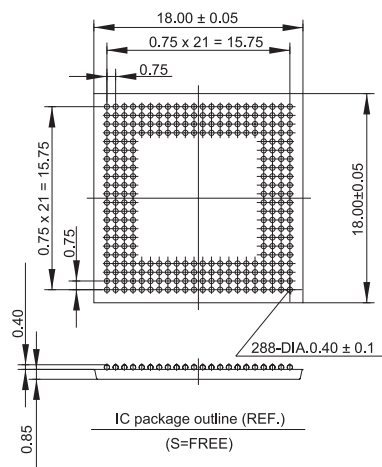


PC Board Layout (Reference Only)

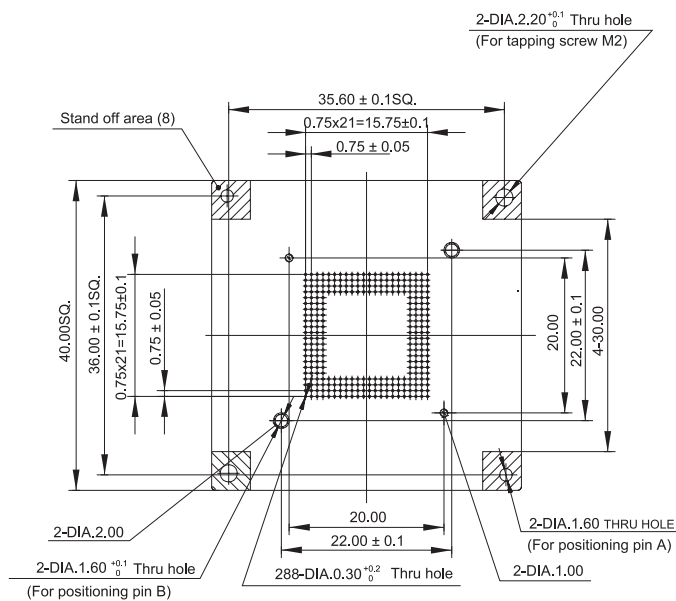


NP291-28807-*

Matching IC Dimension Only



PC Board Layout (Reference Only)



Contact & fix screw hole pattern
Pattern shown looking down through top of socket