

Specifications

Insulation Resistance:	1,000M Ω min. at 100V DC
Dielectric Withstanding Voltage:	100V AC for 1 minute
Contact Resistance:	100m Ω max. at 10mA/20mV max.
Operating Temperature Range:	-55°C to +170°C
Contact Force:	15g /pin (approx.)
Mating Cycles:	10,000 insertions

Materials and Finish

Housing: Polyethersulphone (PES), glass-filled and
Polyetherimide (PEI), glass-filled

Contacts: Beryllium Copper (BeCu)

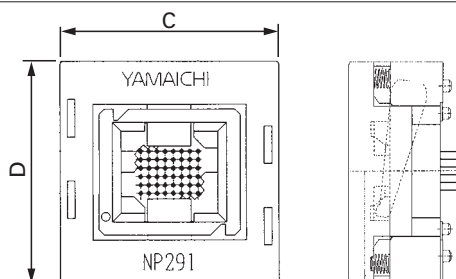
Plating: Gold over Nickel



Features

- Open top type sockets for FBGA packages
- Contacting structure to nip the sides of solder balls to lower damages of coplanarity of solder balls

Outline Socket Dimensions



Part Number (Details)

NP291 - 048 05 - 3 -(G4-BF) - *

Series No.

No. of Contact Pins

Design Number

G = Contact Plating (Gold)

4 = Contact Style (180° TH)

Contact Area - Au (0.3 μ m min. over Ni)

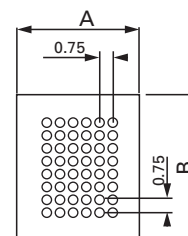
Terminal Area - Au (0.05 μ m min. over Ni)

Positioning Pin Identification:

No Mark = Without Positioning Pins 'A' and 'B'

With Mark = For various Positioning Pin Options
(Please contact Yamaichi)

Outline IC Dimensions



Part Number	Pin Count	Pitch	Grid Size	IC Dimensions	Socket Dimensions
				A x B	C x D
NP291-03617-*	36	0.75	6x6	6.5x10.50	28.5x27.3
NP291-04805-3* AC-16001	36	0.75	6x8	6x8	64x64
NP291-04002-2 AC-11318	40	0.75	5x8	7.628x9.228	27.5x22.5
NP291-04002-2-G4-BF-*	40	0.75	5x8	5.74x7.48	27.5x22.5
NP291-04009-2-G4-BF-*	40	0.75	5x8	5.857x7.508	27.5x22.5
NP291-04013-*	40	0.75	6x11	5.55x9.10	18x24
NP291-04019	40	0.75	6x11	6.15x10.65	16x19
NP291-04414-*	44	0.75	6x11	7.75x14.35	18x24
NP291-04808-*AC-13177	45	0.75	6x8	7.45x7.55	28.3x27.3
NP291-04812 AC-15741	46	0.75	6x8	6.50x7.91	28.3x27.3
NP291-04812-2-* AC-14680	46	0.75	6x8	6.50x7.91	28.3x27.3
NP291-04805-1*	48	0.75	6x8	9x15	32x32
NP291-04805-3*	48	0.75	6x8	6x8	32x32
NP291-04805-4*	48	0.75	6x8	7.20x11.65	32x32
NP291-04805-5*	48	0.75	6x8	6.20x13.15	32x32
NP291-04805-8-*	48	0.75	6x8	6.94x14.40	32x32
NP291-04808-2-G4-BF-*	48	0.75	6x8	7.58x9.81	28.3x27.3
NP291-04812-2-G4-BF-*	48	0.75	6x8	6.50x7.91	28.3x27.3
NP291-04842-*	48	0.75	6x8	7x7	20x20
NP291-04843-*	48	0.75	6x8	6x8	20x20
NP291-04848-*	48	0.75	6x8	8x10	20x20
NP291-04851-*	48	0.75	6x8	7x11	20x20
NP291-04852-*	48	0.75	6x8	9x12	20x20
NP291-04878	48	0.75	6x8	7x8.50	20x20
NP291-07210-2 AC-08904	54	0.75	8x9	7.67x16.37	28.4x33.9
NP291-05658-*	56	0.75	7x8	7.25x12	20x20
NP291-07210-2 AC-08338	56	0.75	8x9	7.67x16.37	28.4x33.9
NP291-05670	56	0.75	7x8	10x6.5	20x26
NP291-07210-2-G4-BF-*	72	0.75	8x9	7.67x16.37	28.4x33.9
NP291-07428-*	74	0.75	7x16	6.80x12.40	16.8x22.0
NP291-07773-*	77	0.75	7x11	7x10	20x26
NP291-28807-*	288	0.75	22x22	18x18	40x40