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Find the *BP Microsystems ASM48UBG* at our website: ***Click HERE***

0.75MM PITCH

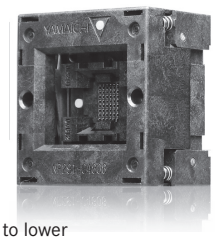
SERIES NP291 (OPEN TOP - TH)
BGA / CSP

SPECIFICATIONS

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

MATERIALS AND FINISH

Housing:	Polyetherimide (PEI), glass-filled Polyethersulphone (PES), glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



FEATURES

- Contacting structure to nip the sides of solder balls to lower damages of coplanarity of solder balls

PART NUMBER

NP291 - 048 - 08-2 - (G4-BF) - *

- Series No.
- No. of Contact Pins
- Design Number
- G = Contact Plating (Gold)
4 = Contact Style (180° TH)
- Contact Area - Au (0.3µm min. over Ni)
Terminal Area - Au (0.5µm min. over Ni
- Positioning Pin Identification::
No Mark = Without Positioning Pin "A" and " B"
With Mark = For Various Postioning Pin Options
(Please Contact Yamaichi)

SERIES IC280 (CLAMSHELL - TH)
BGA / CSP / LGA

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 100V DC
Dielectric Withstanding Voltage:	700V AC for 1 minute for 1.00mmpitch 500V AC for 1 minute for 0.80mm pitch 100V AC for 1 minute for 0.75mm pitch
Contact Resistance:	100mΩ max. at 10mA/20mV max.
Operating Temperature Range:	–40°C to +150°C
Contact Force:	15g to 35g per pin within contact travel distance between 0.2 to 0.5mm
Mating Cycles:	10,000 insertions

MATERIALS AND FINISH

Housing:	Polyetherimide (PEI), glass-filled Polyethersulphone (PES), glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC280 - 696 - 05 - (.AC...)

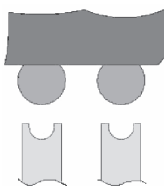
- Series No.
- No. of Contact Pins
- Design Number
- For Pin Depopulation and
Custom Designed Sockets

FEATURES

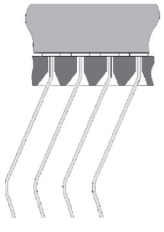
- V-shape contact structure to lower the damage of coplanarity of solder balls
- Available in 3 pitch sizes and various depopulation versions, please contact Yamaichi for further available pin counts or custom sockets

CONTACTING TYPES FOR ALL SERIES

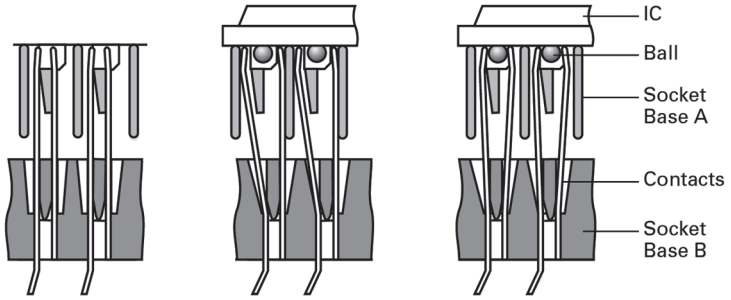
Since the solder balls are touched by two contacts on each side, the solder ball damage can be minimized; additional features are low actuation force and compact socket size



U-Shape Style (BGA)



Bow Style (LGA)

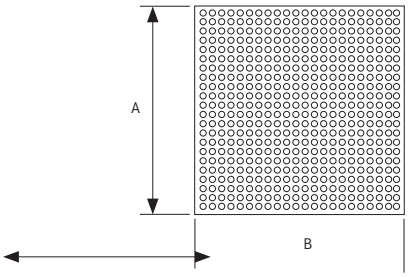


Yamaichi's 2-point Tweezer Style Contact

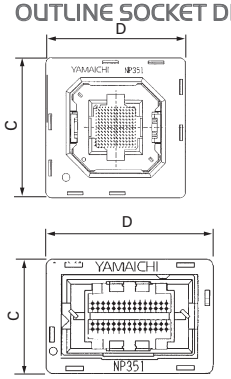
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0.75MM PITCH

TYPICAL IC PACKAGE SIZE



OUTLINE SOCKET DIMENSIONS



Part Number	Pin Count	Grid Size	Package Size A x B	Socket Dimensions C x D	Lid Type
NP291-04842-2	48	6 x 8	7.0 x 7.0	20.0 x 20.0	OT
NP291-04843	48	6 x 8	6.0 x 8.0	20.0 x 20.0	OT
NP291-04843-2	48	6 x 8	6.0 x 8.0	20.0 x 20.0	OT
NP291-04843-3	48	6 x 8	6 .0x 8.0	20.0 x 20.0	OT
NP291-04846	48	6 x 8	6.5 x 6.5	20.0 x 26.0	OT
NP291-04848-2	48	6 x 8	8 .0 x 10.0	20.0 x 20.0	OT
NP291-04848-3	48	6 x 8	8.0 x 10.0	20.0 x 20.0	OT
NP291-04852-P	48	6 x 8	12.0 x 9.0	26.0 x 20.0	OT
NP291-04852-P-2	48	6 x 8	12.0 x 9.0	26.0 x 20.0	OT
NP291-04855	48	6 x 8	6.0 x 10.0	20.0 x 20.0	OT
NP291-04879-2	48	6 x 8	6.0 x 10	20.0 x 20.0	OT
NP291-05647-P	56	8 x 7	7.0 x 12	33.9 x 24.4	OT
NP291-05670-P-1	56	7 x 8	10.0 x 6,5	26.0 x 20.0	OT
NP291-05688-1	56	7 x 8	9.0 x 7.70	26.0 x 20.0	OT
NP291-07210-2.AC-08338	72	8 x 9	7.67 x 16.37	28.4 x 33.9	OT
NP291-07210-2-G4-BF-P	72	8 x 9	7.67 x 16.37	28.4 x 33.9	OT
NP291-16803-1.AC-08229	168	14 x 14	12.0 x 12.0	33.0 x 33.0	OT
NP291-192-092-1	192	14 x 14	12.0 x 12.0	33.0 x 33.0	OT
IC280-225	225	15 x 15	13 x 13	28.4 x 31.3.0	OT
NP291-28807-1	288	22 x 22	18.0 x 18.0	40.0 x 40.0	OT
IC280-324	324	18 x 18	16 x 16	31.6 x 34.6	OT

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NP291-04848-3

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