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0.80MM PITCH

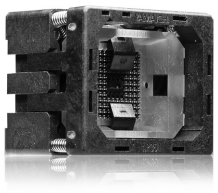
SERIES NP351 (OPEN TOP - TH) - 0.80MM PTCH
BGA / CSP / LGA

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 +150°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

- Self contacting structure without upper pressing force (ZIF)
- 2-point Tweezer Style contact system

PART NUMBER

NP351 - 120 - 14 - (H) - * - (*)

- Series No.
- No. of Contact Pins
- Design Number
- H = Also for Handler Use
- Positioning Pin Options

	Pos. pin "A"	Pos. Pin "B"
1 =	With	With
2 =	With	Without
3 =	Without	With
4 =	Without	Without

- Contact Terminal Length and Form

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...)

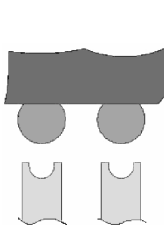
- Series No.
- No. of Contact Pins
- Design Number
- For Pin Depopulation and Custom Designed Sockets

FEATURES

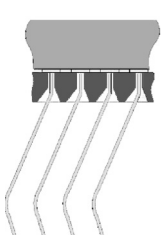
- V-shape contact structure to lower the damage of coplanarity of solder balls
- Available in 3 pitch sizes and various depopulation versions, please contact Yamaichi for further available pin counts or custom sockets

CONTACTING TYPES FOR ALL SERIES

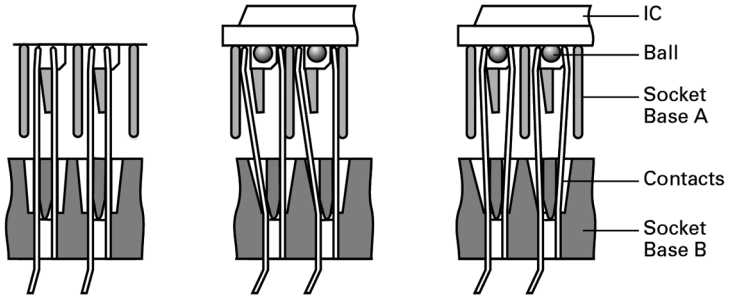
Since the solder balls are touched by two contacts on each side, the solder ball damage can be minimized; additional features are low actuation force and compact socket size



U-Shape Style (BGA)



Bow Style (LGA)

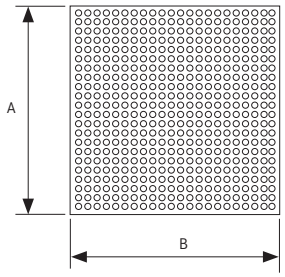


Yamaichi's 2-point Tweezer Style Contact

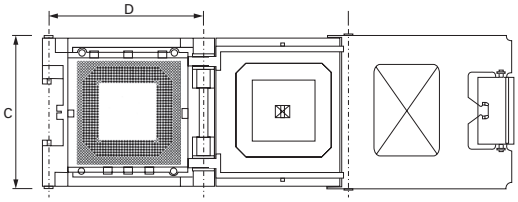
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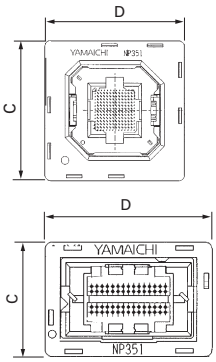
0.80MM PITCH

TYPICAL IC PACKAGE SIZE



OUTLINE SOCKET DIMENSIONS





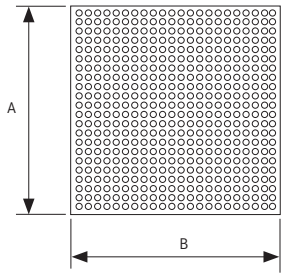
Part Number	Pin Count	Grid Size	Package Size A X B	Socket Dimensions C x D	Lid Type
NP351-048-105-*	48	8 x 12	10.95 x 11.95	36 x 36	OT
NP351-048-146-*	48	6 x 8	10 x 11	33 x 33	OT
NP351-048-147-*	48	7 x 8	7 x 11	33 x 33	OT
NP351-048-155-"	48	8 x 8	7.95 x 8.95	36 x 36	OT
NP351-048-165	48	9 x 8	5.95 x 8.95	18 x 22	OT
NP351-048-166-*	48	10 x 8	7 x 7	17.6 x 25.4	OT
NP351-048-216	48	11 x 8	7 x 11	18 x 22	OT
NP351-048-270	48	12 x 8	10 x 11	18 x 22	OT
NP351-048-284	48	13 x 8	6.40 x 7.80	18 x 22	OT
NP351-048-292	48	14 x 8	8 x 10	18 x 22	OT
NP351-056-100	56	8 x 8	9 x 12	18 x 22	OT
NP351-056-104-*	56	10 x 12	7.95 x 11.60	33 x 33	OT
NP351-056-158-*	56	8 x 8	7 x 11	33 x 33	OT
NP351-056-172-1	56	8 x 8	11 x 12	33 x 33	OT
NP351-056-176-1	56	8 x 8	11 x 12	33 x 33	OT
NP351-056-178-1	56	10 x 12	8.0 x 11.6	17.6 x 25.4	OT
NP351-056-219	56	8 x 8	7.0 x 11.0	18 x 22	OT
NP351-056-294	56	8 x 8	8.95	18 x 22	OT
NP351-05673-*	56	8 x 10	8.95	33 x 33	OT
NP351-06094	60	6 x 15	7.83 x14.76	17.6 x 25.4	OT
NP351-09663 AC-17413	61	10 x 10	9 x 9	36 x 36	OT
NP351-064-148	64	8 x 8	8 x 8	40 x 40	OT
NP351-064-287-*	64	8 x 8	7 x 7	32 x 32	OT
NP351-06444-*	64	8 x 8	8 x 8	36 x 36	OT
NP351-09663 A101115-001	64	10 x 10	9 x 9	36 x 36	OT
NP351-05672-* AC-28445	66	8 x 12	8 x 11	33 x 33	OT
NP351-069-129	69	10 x 10	8 x 11	17.6 x 25.4	OT
NP351-072-174-*	72	8 x 12	8 x 12	17.6 x 25.4	OT
NP351-07296	72	8 x 12	8 x 11	17.6 x 25.4	OT
NP351-05672-* AC-27559	73	10 x 12	8 x 11	33 x 33	OT
NP351-05672-* AC-21998	79	10 x 12	7.95 x 10.95	33 x 33	OT
NP351-080-128	80	9 x 9	8 x 8	18 x 22	OT
NP351-081-169	81	9 x 8	8 x 8	18 x 22	OT
NP351-084-187-1	84	9 x 10	10.95 x 11.95	36 x 36	OT
NP351-09663-*	96	10 x 10	9 x 9	36 x 36	OT
NP351-104 A101033-001	96	8 x 12	7.95 x 11.60	36 x 36	OT
NP351-099-360	99	10 x 10	9 x 12	18 x 22	OT
NP351-206 A100882-00*	100	11 x 11	10 x 10	36 x 36	OT
NP351-09663 A100331-001	100	10 x 10	9 x 9	36 x 36	OT
NP351-10889-*-*	108	12 x 12	11 x 11	36 x 36	OT
NP351-11215-1	112	11 x 11	10 x 10	36 x 36	OT
NP351-11230-*	112	11 x 11	10 x 10	33 x 33	OT
NP351-113-277-*-*	113	11 x 11	10 x 10	36 x 36	OT
NP351-116-* AC-20619	121	11 x 11	10 x 10	36 x 36	OT
NP351-121-206-*	121	11 x 11	10 x 10	36 x 36	OT
NP351-12845-*	128	12 x 12	11 x 11	36 x 36	OT
NP351-128-200-1	128	12 x 12	11 x 11	20 x 24	OT

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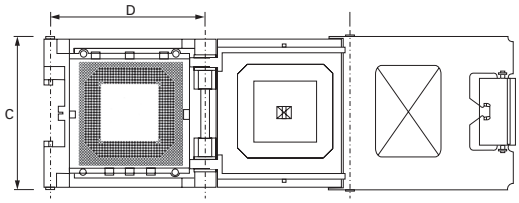
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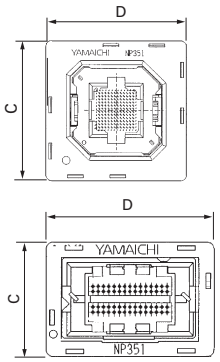
0.80MM PITCH

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
NP351-144-217-*	144	12 x 12	12 x 12	36 x 36	OT
NP351-14422-*	144	13 x 13	12 x 12	36 x 36	OT
NP351-14429-*	144	13 x 13	12 x 12	33 x 33	OT
NP351-15760-3-1	157	16 x 16	14 x14	40 x 40	OT
NP351-132-*-* AC-27365	160	14 x 14	12 x 12	38 x 38	OT
NP351-132-*-* AC-28179	160	14 x 14	12 x 12	40 x 40	OT
NP351-16092-3-1 AC-17761	161	14 x 14	13 x13	40 x 40	OT
IC280-169-127	169	13 x 13	12 x 12	28.40 x 31.35	CL
NP351-17635-*	176	15 x 15	13 x13	38 x 38	OT
NP351-20881 AC-14017	176	17 x 17	15 x 15	38 x 38	OT
NP351-177-115-*	177	14 x 14	13 x13	38 x 38	OT
NP351-18464-*-1 AC-20591	179	14 x 14	12 x 12	40 x 40	OT
NP351-180-139-*	180	14 x 14	12 x 12	40 x 40	OT
NP351-18134-* AC-23537	180	14 x 14	13 x13	40 x 40	OT
NP351-18134-*	181	14 x 14	13 x13	40 x 40	OT
NP351-184132-*-*	184	14 x 14	12 x 12	40 x 40	OT
NP351-18464-1-1	184	14 x 14	12 x 12	40 x 40	OT
NP351-19219-*	192	16 x 16	14 x 14	38 x 38	OT
NP351-19602-1	196	14 x 14	12 x 12	33 x 33	OT
IC280-196-126	196	14 x 14	12 x 12	28.40 x 31.35	CS
NP351-20881-1-1	208	17 x 17	15 x 15	40 x 40	OT
NP351-20890-*-*	208	17 x 17	15 x 15	40 x 40	OT
NP351-20897-*	208	17 x 17	15 x 15	40 x 40	OT
NP351-20897-* AC-23539	208	17 x 17	15 x 15	40 x 40	OT
NP351-20897-1 AC-24732	208	17 x 17	15 x 15	40 x 40	OT
NP351-212-207-3-1	212	15 x 15	13 x13	40 x 40	OT
NP351-21653-3	216	21 x 21	18 x 18	47 x 47	OT
NP351-22405-1	224	18 x 18	16 x 16	38 x 38	OT
NP351-224-134-1-1	224	18 x 18	16 x 16	40 x 40	OT
NP351-135 A101118-001	225	15 x 15	13 x13	38 x 38	OT
NP351-240-195-1	240	17 x 17	15 x 15	40 x 40	OT
NP351-19219 A100363-001	256	16 x 16	14 x 14	38 x 38	OT
IC280-256-211	256	16 x 16	13 x 13	38.80 x 45.25	DL
NP351-264-140-1	264	17 x 17	15 x 15	40 x 40	OT
NP351-26457-*	264	25 x 25	21 x 21	47 x 47	OT
NP351-281-234-1	281	17 x 17	15 x 15	40 x 40	OT
NP351-344 A101016-001	288	19 x 19	16 x 16	39 x 39	OT
NP351-289-191-1	289	17 x 17	15 x 15	40 x 40	OT
NP351-289-191	292	20 x 20	17 x 17	40 x 40	OT
NP351-30487-*-*	304	22 x 22	19 x 19	47 x 47	OT
NP351-34031-*	340	22 x 22	20 x 20	47 x 47	OT
NP351-35243-*	352	26 x 26	23 x 23	47 x 47	OT
NP351-400-594-1	400	20 x 20	17 x 17	47 x 47	OT
NP351-532-83-1	532	26 x 26	23 x 23	47 x 47	OT
NP351-532-523	532	25 x 25	23 x 23	40 x 40	OT
NP351-548-352	548	26 x 26	23 x 23	47 x 47	OT
NP351-625-635	625	25 x 25	21 x 21	40 x 40	OT
NP351-676-659	676	26 x 26	23 x 23	40 x 40	OT
IC280-72919	729	13 x 13	23 x 23	46.8 x 47.6	DL

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