ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

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

1.27MM PITCH

SERIES NP276 (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

- Open top type sockets for BGA packages
- Secure package alignment due to self contacting structure without upper pressing force (ZIF)
- Contacting structure to nip the sides of solder balls to lower damages of coplanarity of solder balls

PART NUMBER

NP276 - 1105 22 - * -(*)

- Series No.
- No. of Contact Pins (.AC are depopulated base sockets
- Design No.
- *Positioning Pin Options

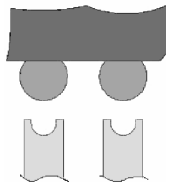
	Pos. Pin 'A'	Pos. Pin 'B'
1 =	With	With
2 =	With	Without
3 =	Without	With
4 =	Without	Without

- Contact Terminal Length and Form

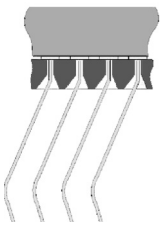
* for position pin A or B please contact Yamaichi

CONTACTING TYPES FOR ALL SERIES

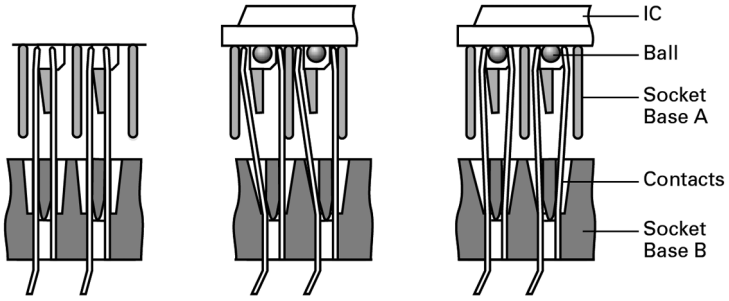
Since the solder balls are touched by two contacts on each side, the solder ball damage can be minimized; additional features are low actuation force and compact socket size



U-Shape Style (BGA)



Bow Style (LGA)

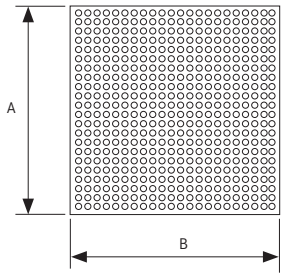


Yamaichi‘s 2-point Tweezer Style Contact

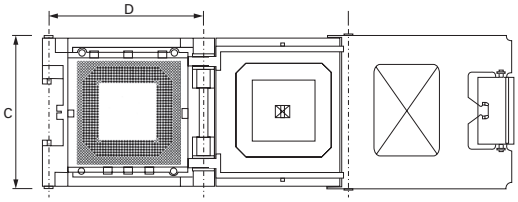
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

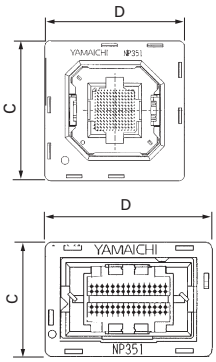
1.27MM PITCH

TYPICAL IC PACKAGE SIZE



OUTLINE SOCKET DIMENSIONS





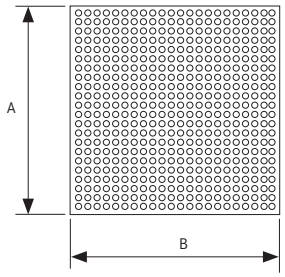
Part Number	Pin Count	Grid Size	Package Size A X B	Socket Dimensions C x D	Lid Type
NP276-11904*	119	7 x 17	14 x 22	27.0 x 33.2	OT
NP276-11935-**-*	119	7 x 17	14 x 22	27.0 x 33.2	OT
NP276-15316.AC-12849	119	7 x 17	14 x 22	28.4 x 33.2	OT
NP276-25626.A106711-001	121	11 x 11	15 x 15	49.4 x 49.4	OT
NP276-15334	153	9 x 17	14 x 22	28.4 x 33.2	OT
NP276-37206 AC-02144	204	17 x 17	23 x 23	49.4 x 49.4	OT
NP276-37206 AC-08329	217	17 x 17	23 x 23	49.4 x 49.4	OT
NP276-23342-1-1	233	17 x 17	23 x 23	49.4 x 49.4	OT
NP276-37206 AC-21744	233	17 x 17	23 x 23	49.4 x 49.4	OT
NP276-37206.A103582-***	233	17 x 17	23 x 23	49.4 x 49.4	OT
NP276-25626 AC-15763	256	16 x 16	23 x 23	49.4 x 49.4	OT
NP276-25626-1	256	16 x 16	21 x 21	49.4 x 49.4	OT
NP276-37206.AC-02310	256	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-37206.AC-03145	256	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-37206.AC-03327	256	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-37206.AC-03134	272	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-87318 AC-23775	273	20 x 20	27 x 27	68.0 x 68.0	OT
NP276-37206.A104323-001	277	20 x 20	27 x 27	49.4 x 49.4	DL
NP276-37206.A101288-001	316	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-40009-*.AC-06524	320	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-37206.AC-05610	328	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-52928.AC-12427-*	329	23 x 23	31 x 31	58.4 x 58.4	OT
NP276-37206 AC-09785	336	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-40037-*.AC-18666	345	20 x 20	31 x 31	58.4 x 58.4	OT
NP276-37206.A100350-001	352	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-59608.AC-03146	352	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-03328	352	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-04944	352	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-03149	356	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-40009.A104318-001	364	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-37206-*	372	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-52928.AC-12426	385	23 x 23	31 x 31	58.4 x 58.4	OT
NP276-59608.AC-02913	388	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-03137	388	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-07411	388	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-40009-*	400	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-40009-A4	400	20 x 20	27 x 27	49.4 x 49.4	OT
NP276-59608 AC-11092	416	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608-*.AC-09801	420	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-05955	420	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608-1 .AC-09801	420	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-87318.AC-05618	432	31 x 31	40 x 40	58.4 x 58.4	OT
NP276-87318.AC-05630	432	31 x 31	40 x 40	58.4 x 58.4	OT
NP276-87318.AC-11938	432	31 x 31	40 x 40	58.4 x 58.4	OT
NP276-59608.AC-04460	456	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-75319.AC-14013	480	29 x 29	37.5 x 37.5	68.0 x 68.0	OT
NP276-59608.AC-03035	484	26 x 26	35 x 35	58.4 x 58.4	OT

cont'd next page

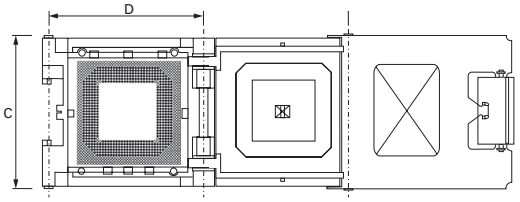
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

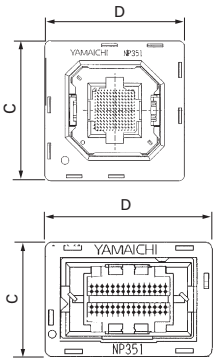
1.27MM PITCH

TYPICAL IC PACKAGE SIZE



OUTLINE SOCKET DIMENSIONS



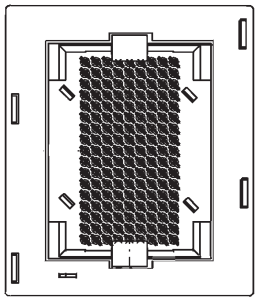


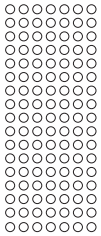
Part Number	Pin Count	Grid Size	Package Size A X B	Socket Dimensions C x D	Lid Type
NP276-59608-2.AC-23795	484	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-07102	492	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-59608.AC-08313	492	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-75319-*.AC-10439	493	29 x 29	37.5 x 37,5	68.0 x 68.0	OT
NP276-52928-B1	529	23 x 23	31 x 31	58.4 x 58.4	OT
NP276-54036-*	540	32 x 32	42.5 x 42.5	74.0 x 74.0	OT
NP276-96924.AC-08324	560	33 x 33	42.5 x 42.5	74.0 x 74.0	OT
NP276-76820.AC-06128	576	30 x 30	40 x 40	68.0 x 68.0	OT
NP276-76820.AC-08955	576	30 x 30	40 x 40	68.0 x 68.0	OT
NP276-59608-B2	596	26 x 26	35 x 35	58.4 x 58.4	OT
NP276-110522-AC-09796	600	35 x 35	45 x 45	74.0 x 74.0	OT
NP276-87318.AC-12416	600	31 x 31	40 x 40	58.4 x 58.4	OT
NP276-62525-A2	625	25 x 25	35 x 35	58.4 x 58.4	OT
NP276-62525-B3	625	25 x 25	35 x 35	58.4 x 58.4	OT
NP276-75319.AC-20616	633	29 x 29	37.5 x 37,5	68.0 x 68.0	OT
NP276-110522.AC-15751	650	35 x 35	37.5 x 37.5	74.0 x 74.0	OT
NP276-110522.AC-17392	652	35 x 35	45 x 45	74.0 x 74.0	OT
NP276-110522.AC-17393	652	35 x 35	45 x 45	74.0 x 74.0	OT
NP276-110522.AC-18327	652	35 x 35	45 x 45	74.0 x 74.0	OT
NP276-87318.AC-14002	672	31 x 31	40 x 40	58.4 x 58.4	OT
NP276-67639-P	676	26 x 26	35 x 35	68.0 x 68.0	OT
NP276-87318-*	873	31 x 31	40 x 40	58.4 x 58.4	OT
NP276-96924-1	969	33 x 33	42,5 x 42,5	74.0 x 74.0	OT
NP276-110522-*	1105	35 x 35	45 x 45	74.0 x 74.0	OT

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

BASE SOCKETS 27.0 X 38.0

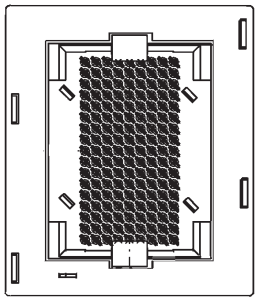
NP276-11904*	Max. Grid Size	7 x 17
	Max. Body Size	14 x 22
	Max. Pin Count	119

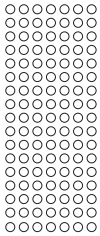




BASE SOCKETS 26.0 X 32.0

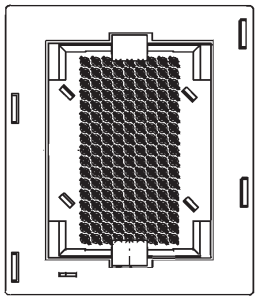
NP276-11904-3	Max. Grid Size	7 x 17
	Max. Body Size	14 x 22
	Max. Pin Count	119

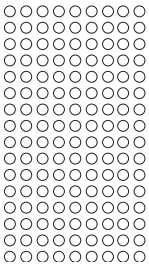




BASE SOCKET 28.0 X 33.2

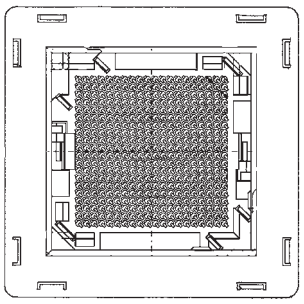
NP276-11904*	Max. Grid Size	9 x 17
	Max. Body Size	14 x 22
	Max. Pin Count	119

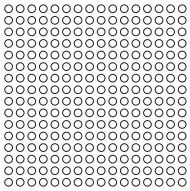




BASE SOCKET 49.4 X 49.4

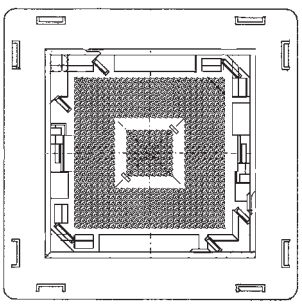
NP276-25626-*	Max. Grid Size	16 x 16
	Max. Body Size	21 x 21
	Max. Pin Count	256

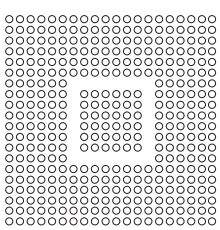




BASE SOCKET 49.4 X 49.4

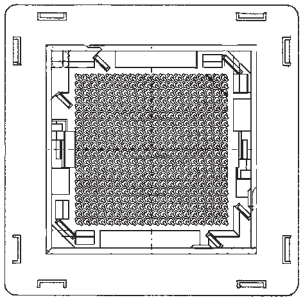
NP276-37206-*	Max. Grid Size	20 x 20
	Max. Body Size	27 x 27
	Max. Pin Count	372

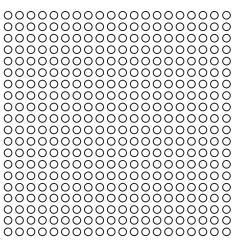




BASE SOCKET 49.4 X 49.4

NP276-40009-*	Max. Grid Size	20 x 20
	Max. Body Size	27 x 27
	Max. Pin Count	400



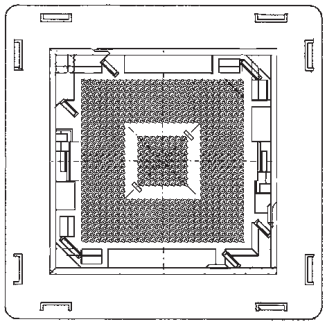


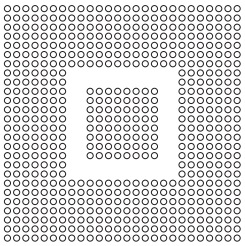
cont'd next page

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

BASE SOCKET 58.40 X 58.40

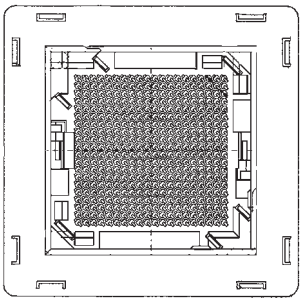
NP276-59608-*	Max. Grid Size	26 x 26
	Max. Body Size	35 x 35
	Max. Pin Count	596

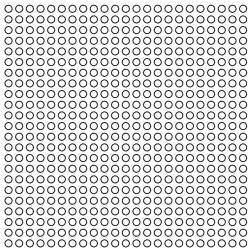




BASE SOCKET 58.4 X 58.4

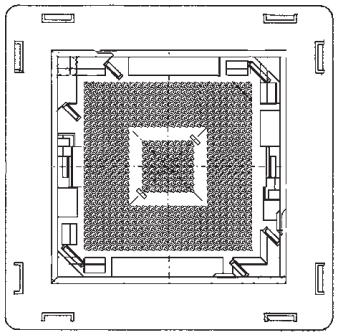
NP276-62525-B*	Max. Grid Size	25 x 25
	Max. Body Size	35 x 35
	Max. Pin Count	625

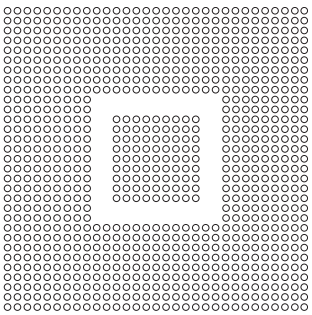




BASE SOCKET 68.0 X 68.0

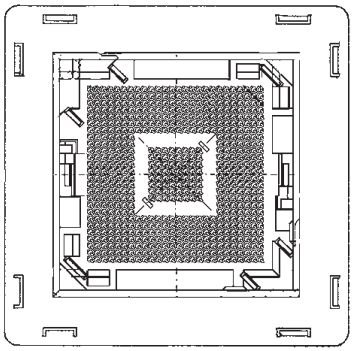
NP276-87318-*	Max. Grid Size	31 x 31
	Max. Body Size	42 x 42
	Max. Pin Count	873

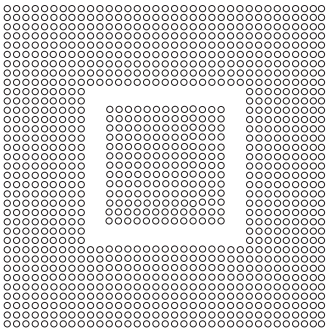




BASE SOCKET 74.0 X 74.0

NP276-110522-*	Max. Grid Size	35 x 35
	Max. Body Size	45 x 45
	Max. Pin Count	1105





Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP