

## 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

Open top type sockets for FBGA packages  
 Self contacting structure without upper pressing force (ZIF)  
 Contacting structure to nip the sides of solder balls to lower damage to the coplanarity of the solder balls

## Part Number (Details)

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

Series No.

No. of Contact Pins

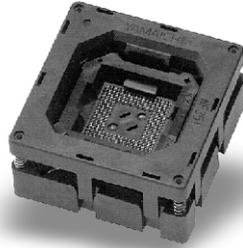
Design Number

H = Also for Handler Use

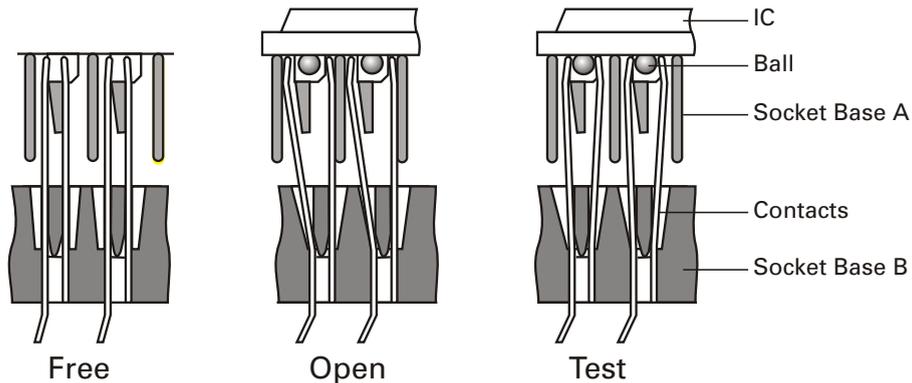
Positioning Pin Options (see PCB):

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

Contact Terminal Length and Form

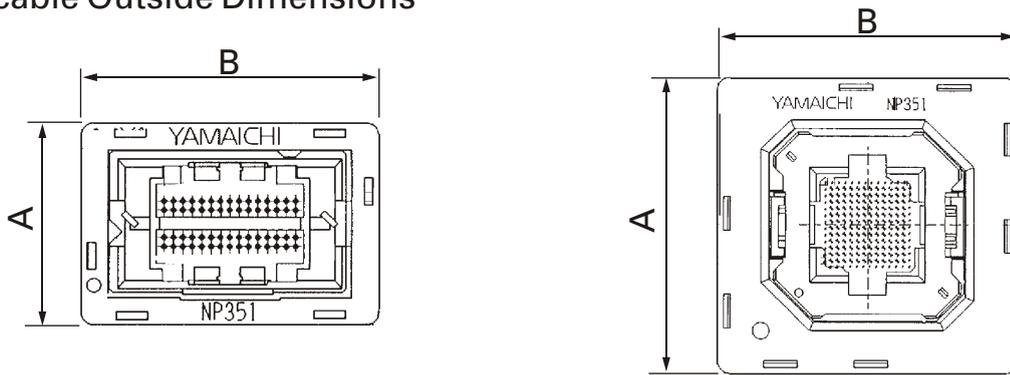


## Yamaichi's 2-point Tweezer Contact



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.

## Applicable Outside Dimensions

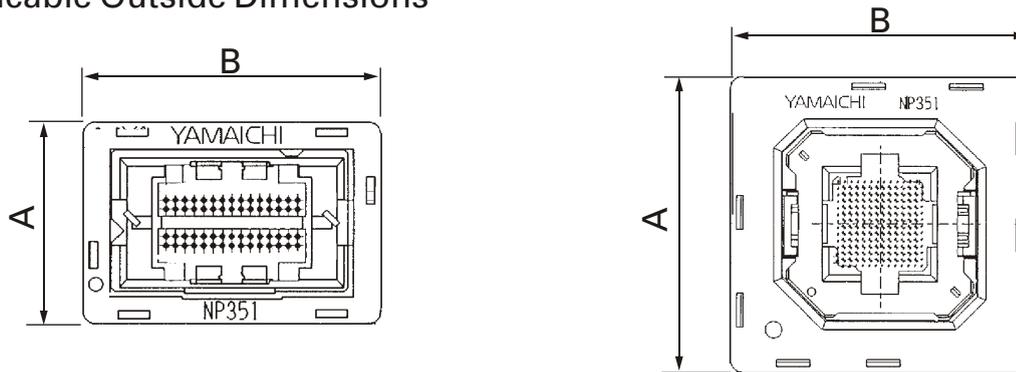


Part Number	Pin Count	Matching IC Dim. (mm)		Base Socket Size (A x B)	Base Socket Details (see page)	IC Layouts (see page)
		Grid Size	IC Body			
NP351-04862	48	6x8	9x9	32x32	D-50	D-53
NP351-048-155-*	48	6x8	7.95x8.95	36x36	D-51	-
NP351-048-166-*	48	6x8	7.0x7.0	17.6x25.4	D-48	-
NP351-048-216	48	6x8	6.40x7.80	18x22	D-49	-
NP351-048-292	48	6x8	8x10	18x22	D-49	-
NP351-048-105-*	48	8x12	10.95x11.95	36x36	D-51	-
NP351-049-122-*	49	7x7	7x7	32x32	D-50	-
NP351-056-178-*	56	8x8	8.00x11.60	17.6x25.4	D-48	D-53
NP351-056-158-*	56	8x8	7x11	33x33	D-50	-
NP351-056-172-*	56	8x8	11x12	33x33	D-50	D-53
NP351-056-228	56	8x8	7.95x11.55	22x28	-	-
NP351-05682	56	8x8	9x12	17.6x25.4	D-48	D-53
NP351-060-214	60	10x10	8.70x9.10	18x22	D-49	-
NP351-060-204	60	10x10	8.0x9.0	20x24	D-50	D-54
NP351-060-226	60	6x15	11x13	17x26.5	D-48	-
NP351-06024-**-*	60	6x15	7.83x14.76	40x40	D-51	-
NP351-060-296	60	6x15	6.60x12.80	26.5x20	-	-
NP351-06040	60	(4)6x15	9.55x17.32	17.6x25.4	D-48	D-53
NP351-06059	60	(4)6x15	7.83x14.76	17.6x25.4	D-48	D-53
NP351-06094	60	(4)6x15	7.83x14.76	17.6x25.4	D-48	D-53
NP351-060-114-**-*	60	8x15	11x13 or 8x16	26.5x20.0	-	-
NP351-09663 AC-17413	61	10x10	9x9	36x36	D-51	-
NP351-064-148	64	8x8	8x8	40x40	D-51	D-53
NP351-06438-**-*	64	8x8	8x8	32x32	D-50	D-53
NP351-06444-*	64	8x8	8x8	36x36	D-51	D-53
NP351-064-268	64	8x8	10x11	18x22	D-49	-
NP351-064-287-*	64	8x8	7x7	32x32	D-50	-
NP351-069-129	69	10x10	8x11	17.6x25.4	D-48	-
NP351-072-274	72	8x10	7x9	18x22	D-49	-
NP351-072-152	72	8x12	8x11	17.6x25.4	D-48	-
NP351-072-174-*	72	8x12	8x12	17.6 25.4	D-48	-
NP351-072-227	72	8x12	7x11	18x22	D-49	-
NP351-07296	72	8x12	8x11	17.6x25.4	D-48	D-53
NP351-09663-*.AC-27881	80	10x10	9x9	36x36	D-51	-
NP351-08033-*	80	12x12	11x11	36x36	D-51	D-54
NP351-080-205	80	(4)6x15	9x16	17.6x25.4	D-48	D-53
NP351-080-128	80	9x9	8x8	18x22	D-49	D-54
NP351-08041	80	9x9	9x9	32x32	D-50	D-54
NP351-081-169	81	9x9	8x8	18x22	D-49	-
NP351-084-187-*	84	9x10	10.95x11.95	36x36	D-51	-
NP351-090-285-**-*	90	9x15	11x13	17x24	-	-
NP351-092-185	92	(6)10x18	11.06x16.66	19.5x26.0	D-49	D-53
NP351-09663-*	96	10x10	9x9	36x36	D-51	D-54
NP351-097-116-*	97	11x11	10x10	36x36	D-51	D-54

(.AC) are depopulated versions from existing NP351 base sockets.

# NP351 Series (Open Top) Fine Ball Grid Array (FBGA, 0.80mm Pitch)

## Applicable Outside Dimensions

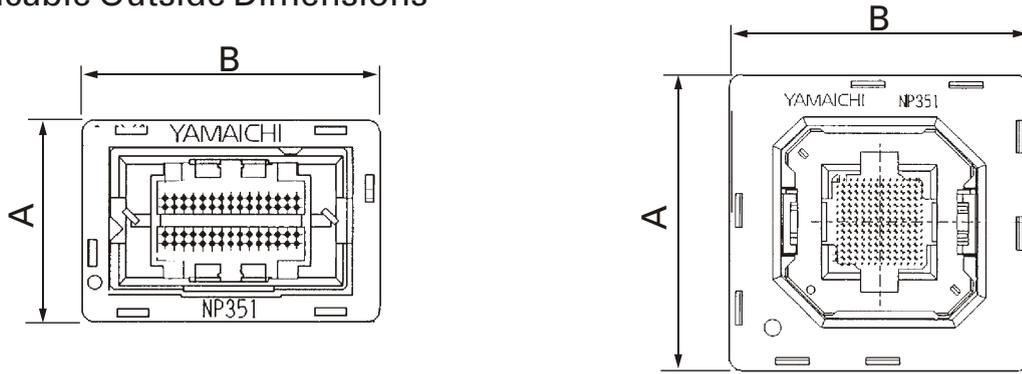


Part Number	Pin Count	Matching IC Dim. (mm)		Base Socket Size (A x B)	Base Socket Details (see page)	IC Layouts (see page)
		Grid Size	IC Body			
NP351-100-211-*	100	11x11	11x11	36x36	D-51	-
NP351-10889-*. *	108	12x12	11x11	36x36	D-51	-
NP351-10820	108	12x12	11x11	36x36	D-51	D-54
NP351-109-118-*	109	12x12	11x11	36x36	D-51	-
NP351-11215-*	112	11x11	10x19	36x36	D-51	-
NP351-11230	112	11x11	10x10	36x36	D-51	-
NP351-113-277-*. *	113	11x11	10x10	36x36	D-51	-
NP351-121-206-*	121	11x11	10x10	36x36	D-51	-
NP351-12114-*. *	121	13x13	12x12	36x36	D-51	-
NP351-121-156-*. *	121	13x13	12x12	36x36	D-51	-
NP351-12845-*	128	12x12	11x11	36x36	D-51	D-54
NP351-128-200-2	128	12x12	11x11	20x24	D-50	D-54
NP351-139-*.AC-20602	132	14x14	12x12	40x40	D-51	-
NP351-141-109-*	141	12x12	11x11	36x36	D-51	D-54
NP351-141-119-*	141	12x12	11x11	36x36	D-51	-
NP351-144-111-*	144	12x12	11x11	36x36	D-51	-
NP351-144-217-*	144	12x12	12x12	36x36	D-51	-
NP351-144-230	144	12x12	12x12	24.5x24.5	-	-
NP351-14422-*	144	13x13	12x12	36x36	D-51	D-55
NP351-14429	144	13x13	12x12	33x33	D-50	D-55
NP351-14426-*. *	144	14x14	13x13	40x40	D-51	-
NP351-14493-*. *	144	14x14	13x13	40x40	D-51	D-55
NP351-144-319-*. *	144	14x14	12x12	40x40	D-51	-
NP351-145-154-*	145	15x15	13x13	38x38	D-51	D-55
NP351-15208-*. *	152	16x16	14x14	38x38	D-51	D-56
NP351-15208N-*. *	152	16x16	14x14	40x40	D-51	D-56
NP351-15760-*. *	157	16x16	14x14	40x40	D-51	D-56
NP351-160-133-*. *	160	13x13	12x12	36x36	D-51	-
NP351-16027-*. *	160	14x14	13x13	40x40	D-51	-
NP351-132-*. *.AC-27365	160	14x14	12x12	38x38	D-51	-
NP351-132-*. *.AC-28179	160	14x14	12x12	40x40	D-51	-
NP351-16092-*. *	160	14x14	13x13	40x40	D-51	D-55
NP351-18464-*.AC-14895	161	14x14	12x13	40x40	D-51	-
NP351-19602.AC-23134	168	14x14	12x12	33x33	D-50	-
NP351-14422-*.AC-17197	169	13x13	12x12	36x36	D-51	-
NP351-17607	175	15x15	13x13	38x38	D-51	D-55
NP351-17635-*	176	15x15	13x13	40x40	D-51	D-55
NP351-163.AC-28048	176	15x15	13x13	40x40	D-51	-
NP351-176-135-*	176	15x15	13x13	40x40	D-51	-
NP351-17621-*. *	176	17x17	15x15	40x40	D-51	-
NP351-17691-*. *	176	17x17	15x15	40x40	D-51	D-56
NP351-20881.AC-14017	176	17x17	15x15	38x38	D-51	-

(.AC) are depopulated versions from existing NP351 base sockets.

# NP351 Series (Open Top) Fine Ball Grid Array (FBGA, 0.80mm Pitch)

## Applicable Outside Dimensions



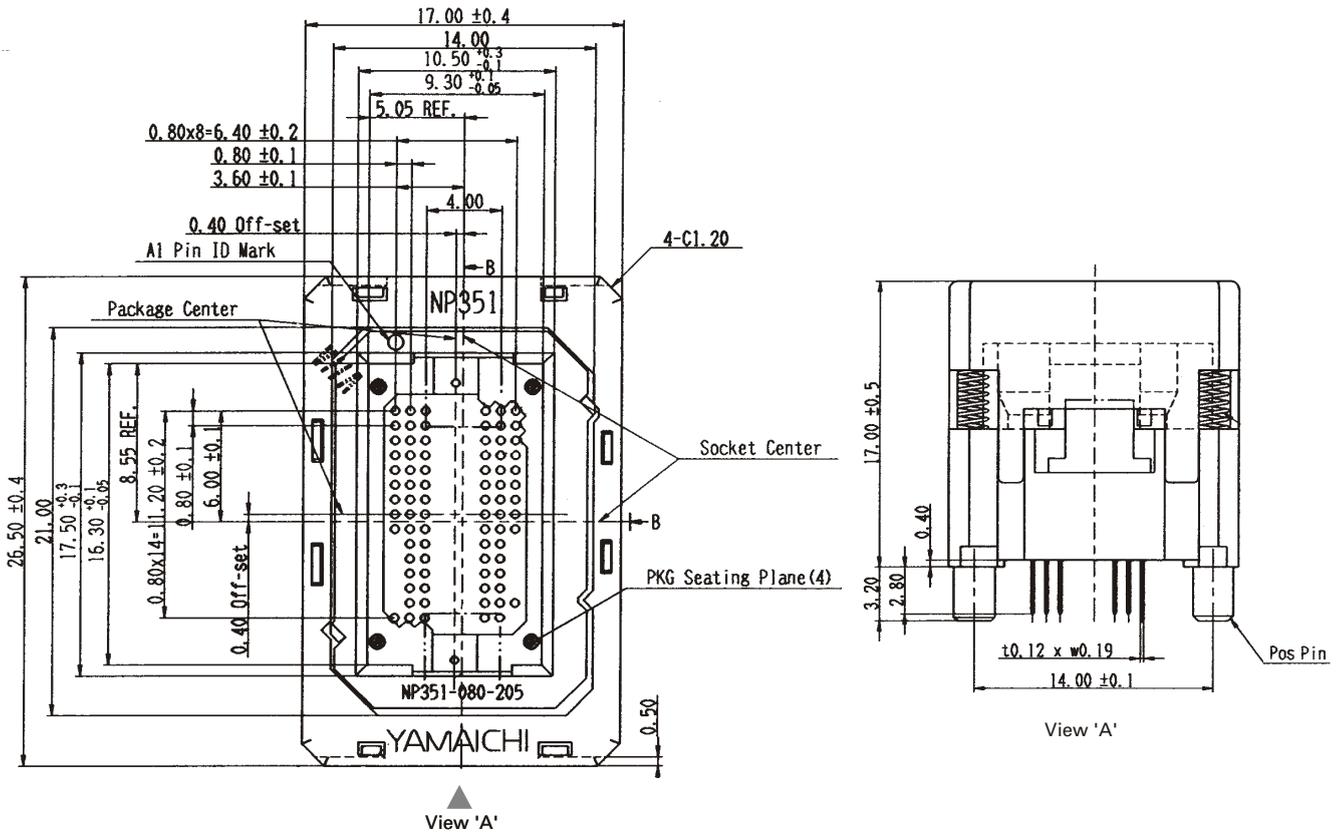
Part Number	Pin Count	Matching IC Dim. (mm)		Base Socket Size (A x B)	Base Socket Details (see page)	IC Layouts (see page)
		Grid Size	IC Body			
NP351-180-139-*	180	14x14	12x12	40x40	D-51	-
NP351-180-131-**-*	180	14x14	12x12	40x40	D-51	D-55
NP351-19602 AC-09782	180	14x14	12x12	33x33	D-50	-
NP351-18134-*	181	14x14	13x13	40x40	D-51	D-55
NP351-18464-**-*	184	14x14	12x12	40x40	D-51	D-55
NP351-184-132-**-*	184	14x14	12x12	40x40	D-51	-
NP351-15760-3-2.AC-16183	192	16x16	14x14	40x40	D-51	-
NP351-19219-*	192	16x16	14x14	38x38	D-51	D-56
NP351-192-247H-*	192	16x16	14x14	38x38	D-51	-
NP351-19285	192	16x16	14x14	38x38	D-51	-
NP351-193-120-*	193	16x16	14x14	40x40	D-51	-
NP351-18464-*.AC-23530	196	14x14	12x12	40x40	D-51	-
NP351-18464.AC-28663	196	14x14	12x12	40x40	D-51	-
NP351-19602	196	14x14	12x12	33x33	D-50	D-55
NP351-196-145-**-*	196	16x16	14x14	40x40	D-51	D-56
NP351-20149-*	201	15x15	13x13	38x38	D-51	D-55
NP351-20881-*	208	17x17	15x15	40x40	D-51	D-56
NP351-20890-**-*	208	17x17	15x15	40x40	D-51	D-56
NP351-20897-*	208	17x17	15x15	40x40	D-51	-
NP351-212-207-**-*	212	15x15	13x13	40x40	D-51	-
NP351-21653	216	21x21	18x18	47x47	D-52	-
NP351-220-218-*	220	16x16	13x13	40x40	D-51	-
NP351-221-262-**-*	221	13x17	13x15	24x30	-	-
NP351-15760-**-*.AC-26972	221	16x16	14x14	40x40	D-51	-
NP351-22405N-*	224	18x18	16x16	38x38	D-51	D-56
NP351-224-134-**-*	224	18x18	16x16	40x40	D-51	-
NP351-20149-*.AC-27395	225	15x15	13x13	38x38	D-51	-
NP351-240-229	240	16x16	14x14	40x40	D-51	D-56
NP351-140-*.AC-22635	240	17x17	15x15	38x38	D-51	-
NP351-240-195-*	240	17x17	15x15	40x40	D-51	-
NP351-24099-**-*	240	18x18	16x16	40x40	D-51	D-56
NP351-24088-**-*	240	22x22	19x19	47x47	D-52	-
NP351-264-140-*	264	17x17	15x15	40x40	D-51	-
NP351-26457-*	264	25x25	21x21	47x47	D-52	-
NP351-281-234-*	281	17x17	15x15	40x40	D-51	-
NP351-289-191-*	289	17x17	15x15	40x40	D-51	D-56
NP351-30413-**-*	304	22x22	19x19	47x47	D-52	D-57
NP351-30487-**-*	304	22x22	19x19	47x47	D-52	-
NP351-304-183	304	23x23	18x18	47x47	D-52	-
NP351-21653 AC-14425	320	21x21	18x18	47x47	D-52	D-57
NP351-34031-*	340	22x22	20x20	47x47	D-52	D-57
NP351-43216	432	31x31	27x27	56x56	D-52	D-57
NP351-52009	520	31x31	27x27	56x56	D-52	D-57
NP351-532-83-*	532	26x26	23x23	47x47	D-52	D-57

(.AC) are depopulated versions from existing NP351 base sockets.

# NP351 Series (Open Top) Fine Ball Grid Array (FBGA, 0.80mm Pitch)

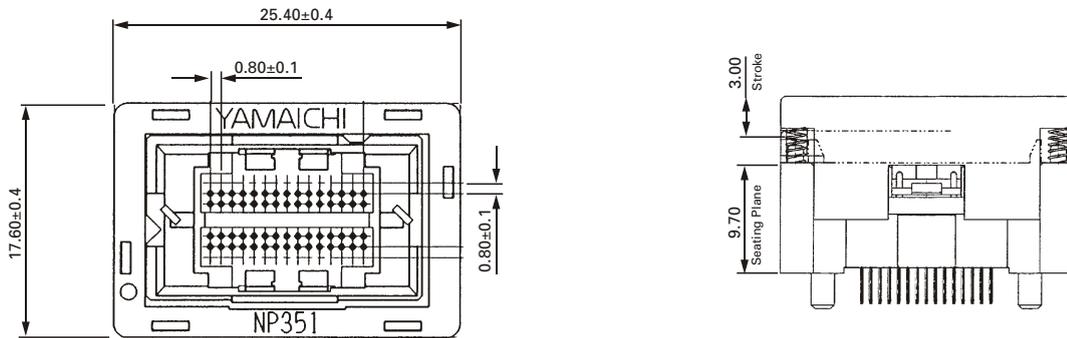
Base Socket Size 17.00 x 26.50

Grid Sizes 6 x 15



Base Socket Size 17.60 x 25.40

Grid Sizes 6 x 8  
(4)6 x 15  
8 x 15  
8 x 8  
8 x 12  
10 x 10

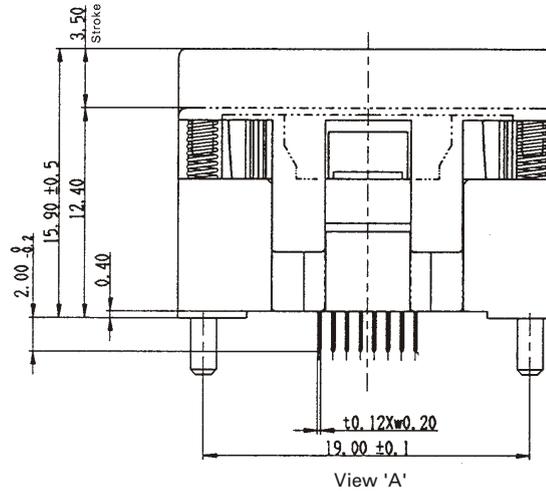
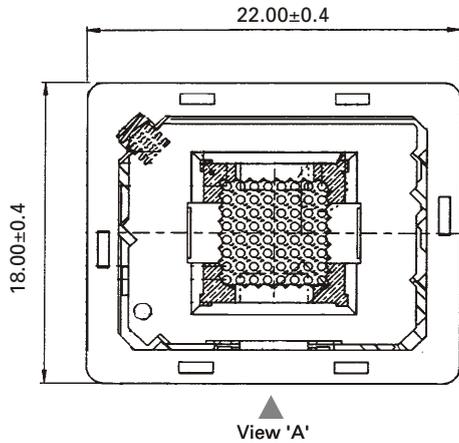


# NP351 Series (Open Top) Fine Ball Grid Array (FBGA, 0.80mm Pitch)

Base Socket Size 18.00 x 22.00

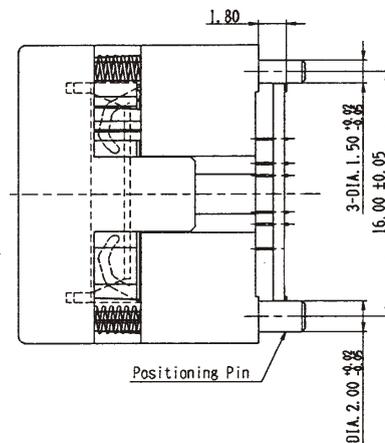
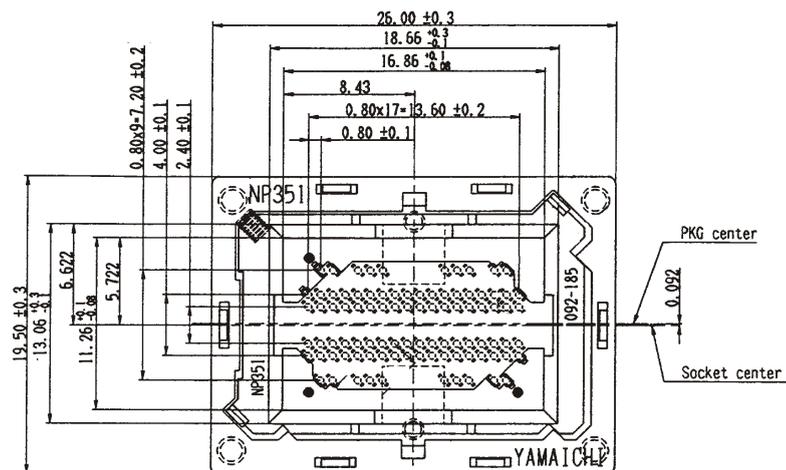
Grid Sizes

- 6 x 8
- 8 x 10
- 8 x 12
- 8 x 8
- 9 x 9
- 10 x 10



Base Socket Size 19.50 x 26.00

Grid Size 6(10) x 18



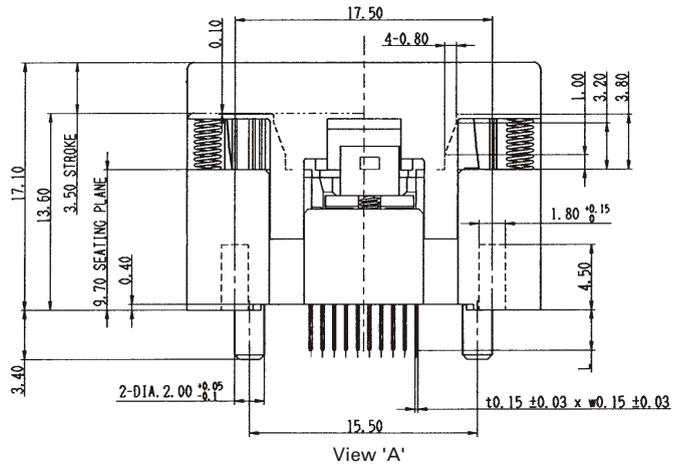
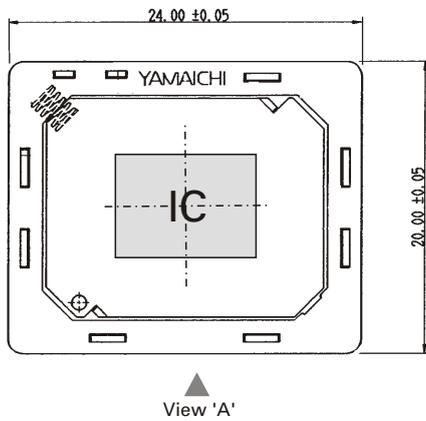
Arrays

# NP351 Series (Open Top)

# Fine Ball Grid Array (FBGA, 0.80mm Pitch)

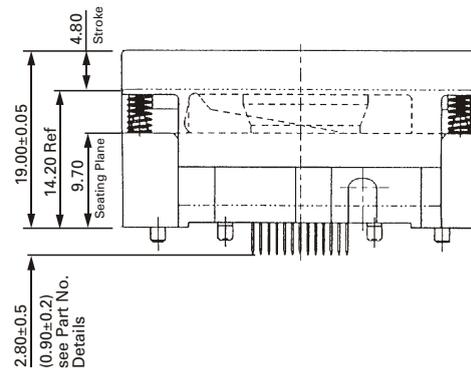
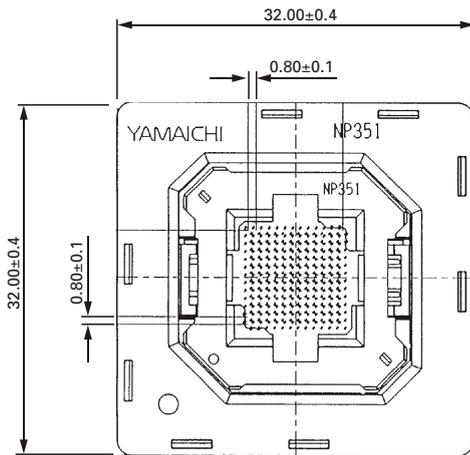
Base Socket Size 20.00 x 24.00

Grid Sizes 10 x 10  
12 x 12



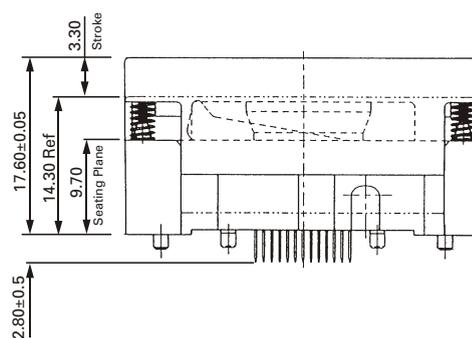
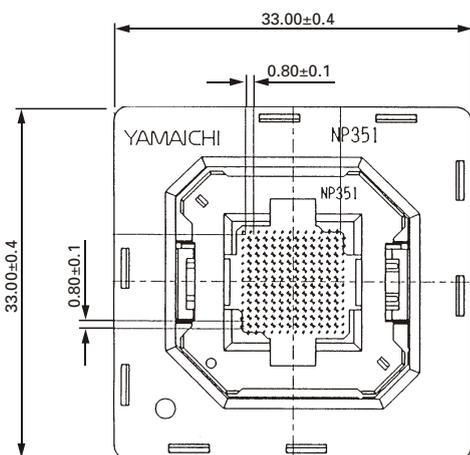
Base Socket Size 32.00 x 32.00

Grid Sizes 6 x 8  
7 x 7  
8 x 8  
9 x 9



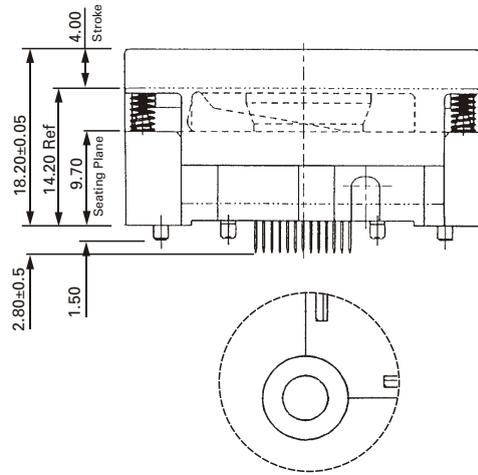
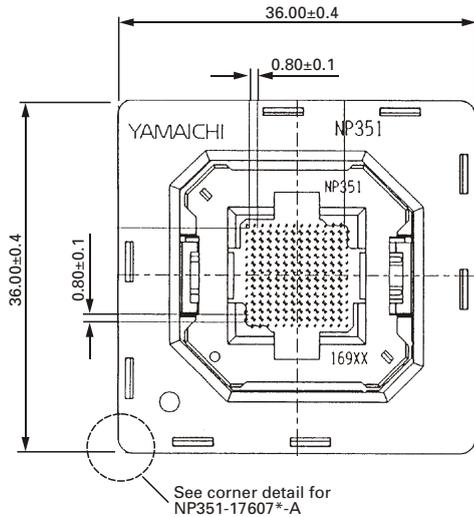
Base Socket Size 33.00 x 33.00

Grid Sizes 8 x 8  
13 x 13  
14 x 14



# NP351 Series (Open Top) Fine Ball Grid Array (FBGA, 0.80mm Pitch)

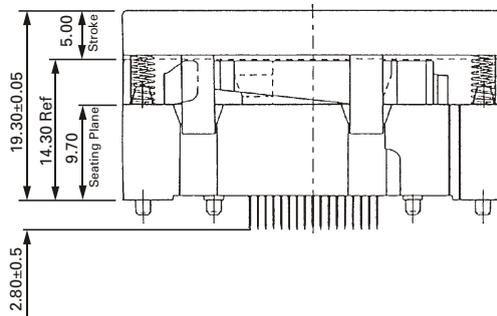
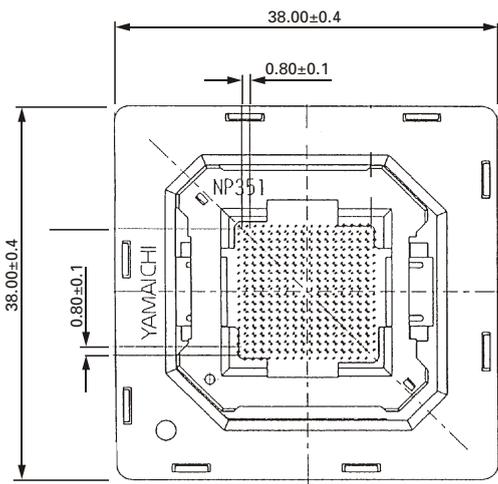
## Base Socket Size 36.00 x 36.00



Corner Detail for NP351-17607\*-A only

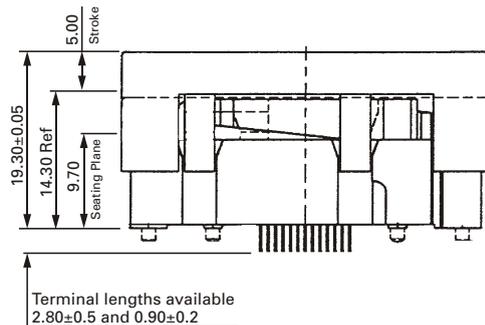
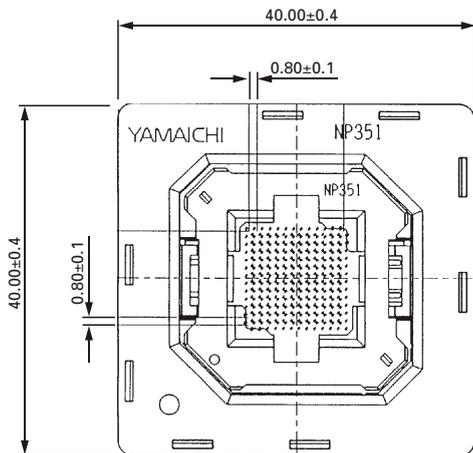
Grid Sizes	8 x 8
	8 x 12
	9 x 10
	10 x 10
	11 x 11
	12 x 12
	13 x 13
	15 x 15

## Base Socket Size 38.00 x 38.00



Grid Sizes	14 x 14
	15 x 15
	16 x 16
	17 x 17
	18 x 18

## Base Socket Size 40.00 x 40.00

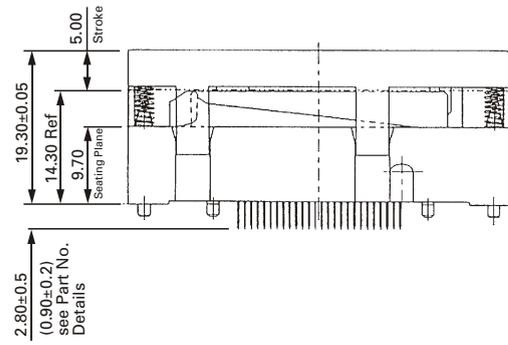
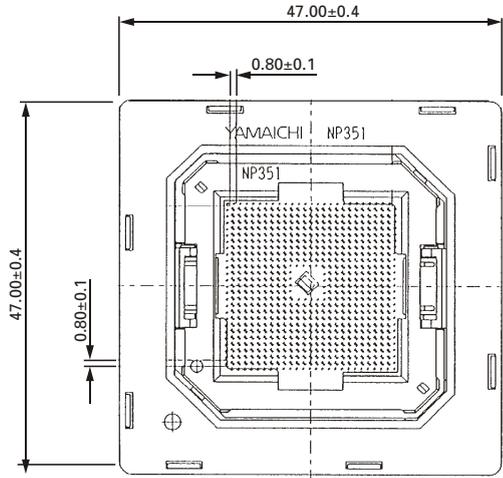


Terminal lengths available  
2.80±0.5 and 0.90±0.2

Grid Sizes	6 x 15
	8 x 8
	14 x 14
	15 x 15
	16 x 16
	17 x 17
	18 x 18

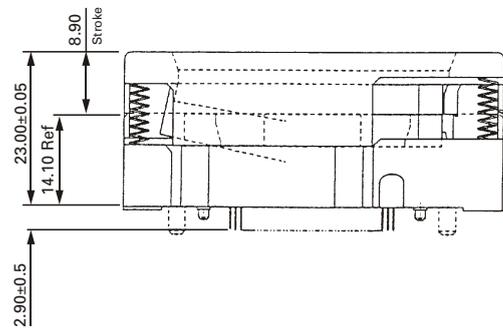
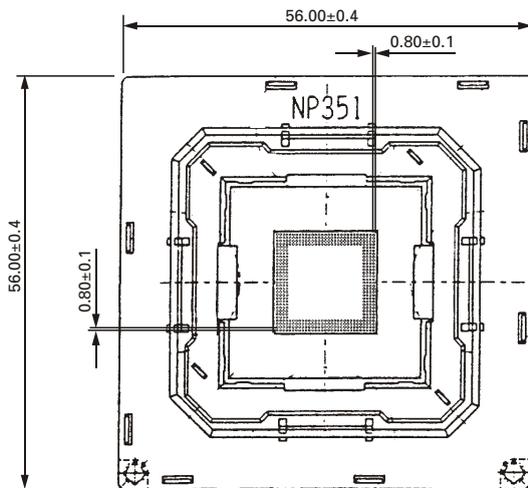
Base Socket Size 47.00 x 47.00

Grid Sizes	21 x 21
	22 x 22
	23 x 23
	25 x 25
	26 x 26



Base Socket Size 56.00 x 56.00

Grid Size	26 x 26
	31 x 31



## Grid Size (4)6 x 15

<b>NP351-06040</b> Pin Count: 60 Body Size: 9.55x17.33 Base Socket: 17.6x25.4 Page No.: D-48	<b>NP351-06059</b> Pin Count: 60 Body Size: 7.83x14.76 Base Socket: 17.6x25.4 Page No.: D-48	<b>NP351-06094-*. *</b> Pin Count: 60 Body Size: 7.83x14.76 Base Socket: 17.6x25.4 Page No.: D-46

## Grid Size 6 x 15

<b>NP351-080-205</b> Pin Count: 80 Body Size: 9x16 Base Socket: 17.0x25.4 Page No.: D-48

## Grid Size 6(10) x 8

<b>NP351-04862-*</b> Pin Count: 48 Body Size: 9x9 Base Socket: 32.0x32.0 Page No.: D-48

## Grid Size 6 x 18

<b>NP351-092-185</b> Pin Count: 92 Body Size: 11.06x16.66 Base Socket: 19.50x26.00 Page No.: D-48

## Grid Size 8 x 8

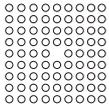
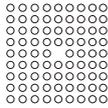
<b>NP351-05682</b> Pin Count: 56 Body Size: 9x12 Base Socket: 17.6x25.4 Page No.: D-48	<b>NP351-056-178-*</b> Pin Count: 56 Body Size: 8x11.6 Base Socket: 17.6x25.4 Page No.: D-48	<b>NP351-056-172-*</b> Pin Count: 56 Body Size: 11x12 Base Socket: 33.0x33.0 Page No.: D-50

## Grid Size 8 x 12

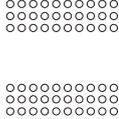
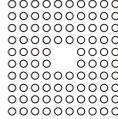
<b>NP351-07296</b> Pin Count: 72 Body Size: 8x11 Base Socket: 17.6x25.4 Page No.: D-48

<b>NP351-064-148</b> Pin Count: 64 Body Size: 8x8 Base Socket: 40.0x40.0 Page No.: D-51	<b>NP351-06444*</b> Pin Count: 64 Body Size: 8x8 Base Socket: 36.0x36.0 Page No.: D-51	<b>NP351-06438-*. *</b> Pin Count: 64 Body Size: 8x8 Base Socket: 32.0x32.0 Page No.: D-50

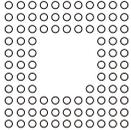
## Grid Size 9 x 9

	
<b>NP351-080-128</b>	<b>NP351-08041-*</b>
Pin Count: 80 Body Size: 8x8 Base Socket: 18.0x22.0 Page No.: D-49	Pin Count: 80 Body Size: 9x9 Base Socket: 32.0x32.0 Page No.: D-50

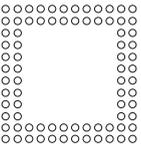
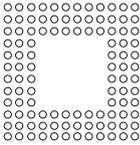
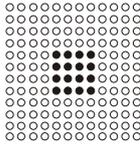
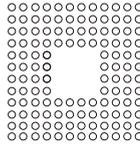
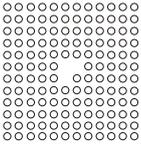
## Grid Size 10 x 10

	
<b>NP351-060-204</b>	<b>NP351-09663-*</b>
Pin Count: 60 Body Size: 8x9 Base Socket: 20.0x24.0 Page No.: D-50	Pin Count: 96 Body Size: 9x9 Base Socket: 36.0x36.0 Page No.: D-51

## Grid Size 11 x 11

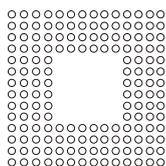

<b>NP351-97-116-*</b>
Pin Count: 97 Body Size: 10x10 Base Socket: 36.0x36.0 Page No.: D-51

## Grid Size 12 x 12

		 <p>● = dummy balls</p>	
<b>NP351-08033</b>	<b>NP351-10820</b>	<b>NP351-128-200-2</b>	<b>NP351-12845-*</b>
Pin Count: 80 Body Size: 11x11 Base Socket: 36.0x36.0 Page No.: D-51	Pin Count: 108 Body Size: 11x11 Base Socket: 36.0x36.0 Page No.: D-51	Pin Count: 128 Body Size: 11x11 Base Socket: 20.0x24.0 Page No.: D-50	Pin Count: 128 Body Size: 11x11 Base Socket: 36.0x36.0 Page No.: D-51
			
<b>NP351-141-109-*</b>			
Pin Count: 141 Body Size: 11x11 Base Socket: 36.0x36.0 Page No.: D-51			

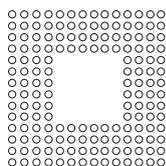
# NP351 Series (Open Top) Fine Ball Grid Array Layouts (FBGA, 0.80mm Pitch)

## Grid Size 13 x 13



**NP351-14429-\***

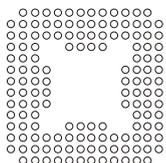
Pin Count: 144  
 Body Size: 12x12  
 Base Socket: 33.0x33.0  
 Page No.: D-50



**NP351-14422-\***

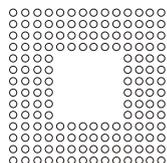
Pin Count: 144  
 Body Size: 12x12  
 Base Socket: 36.0x36.0  
 Page No.: D-50

## Grid Size 14 x 14



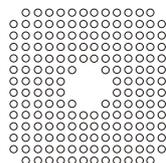
**NP351-14493\***

Pin Count: 144  
 Body Size: 13x13  
 Base Socket: 40.0x40.0  
 Page No.: D-51



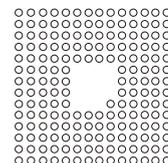
**NP351-16092-\***

Pin Count: 160  
 Body Size: 13x13  
 Base Socket: 40.0x40.0  
 Page No.: D-51



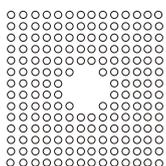
**NP351-180-131-\*-\***

Pin Count: 180  
 Body Size: 12x12  
 Base Socket: 40.0x40.0  
 Page No.: D-51



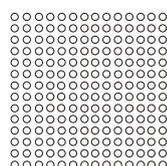
**NP351-18134-\***

Pin Count: 181  
 Body Size: 13x13  
 Base Socket: 38.0x38.0  
 Page No.: D-51



**NP351-18464-\***

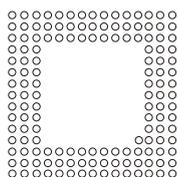
Pin Count: 184  
 Body Size: 12x12  
 Base Socket: 40.0x40.0  
 Page No.: D-51



**NP351-19602-\***

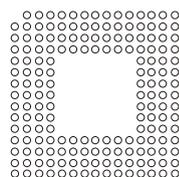
Pin Count: 196  
 Body Size: 12x12  
 Base Socket: 33.0x33.0  
 Page No.: D-50

## Grid Size 15 x 15



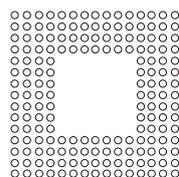
**NP351-145-154-\***

Pin Count: 145  
 Body Size: 13x13  
 Base Socket: 38.0x38.0  
 Page No.: D-51



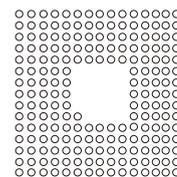
**NP351-17607**

Pin Count: 175  
 Body Size: 13x13  
 Base Socket: 38.0x38.0  
 Page No.: D-51



**NP351-17635-\***

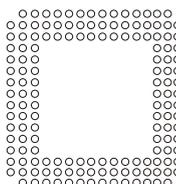
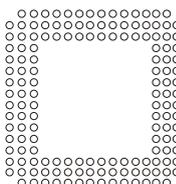
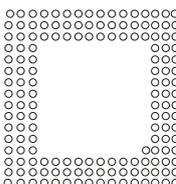
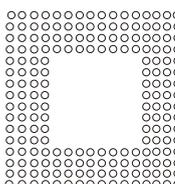
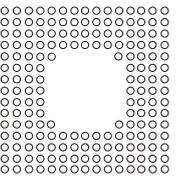
Pin Count: 176  
 Body Size: 13x13  
 Base Socket: 40.0x40.0  
 Page No.: D-51



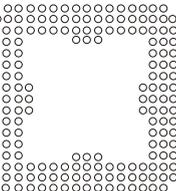
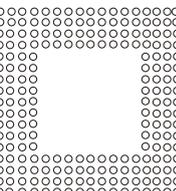
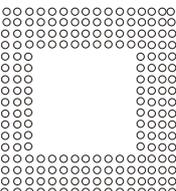
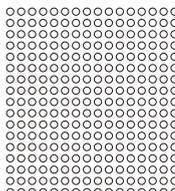
**NP351-20149-\***

Pin Count: 201  
 Body Size: 13.0x13.0  
 Base Socket: 38.0x38.0  
 Page No.: D-51

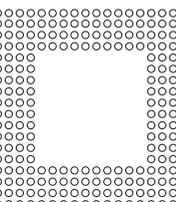
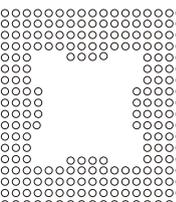
## Grid Size 16 x 16

 <p><b>NP351-15208-*</b></p> <p>Pin Count: 152 Body Size: 14.0x14.0 Base Socket: 38.0x38.0 Page No.: D-51</p>	 <p><b>NP351-15208N</b></p> <p>Pin Count: 152 Body Size: 14.0x14.0 Base Socket: 40.0x40.0 Page No.: D-51</p>	 <p><b>NP351-15760-*</b></p> <p>Pin Count: 157 Body Size: 14.0x14.0 Base Socket: 40.0x40.0 Page No.: D-51</p>	 <p><b>NP351-19219-*</b></p> <p>Pin Count: 192 Body Size: 14.0x14.0 Base Socket: 38.0x38.0 Page No.: D-51</p>
 <p><b>NP351-196-145-*-*</b></p> <p>Pin Count: 196 Body Size: 14x14 Base Socket: 40.0x40.0 Page No.: D-51</p>			

## Grid Size 17 x 17

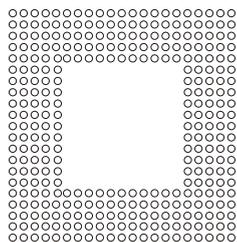
 <p><b>NP351-17691-*</b></p> <p>Pin Count: 176 Body Size: 15.0x15.0 Base Socket: 40.0x40.0 Page No.: D-51</p>	 <p><b>NP351-20881-*</b></p> <p>Pin Count: 208 Body Size: 15.0x15.0 Base Socket: 40.0x40.0 Page No.: D-51</p>	 <p><b>NP351-20890-*</b></p> <p>Pin Count: 208 Body Size: 15.0x15.0 Base Socket: 40.0x40.0 Page No.: D-51</p>	 <p><b>NP351-289-191-*</b></p> <p>Pin Count: 289 Body Size: 15.0x15.0 Base Socket: 40.0x40.0 Page No.: D-51</p>
--	--	---	--

## Grid Size 18 x 18

 <p><b>NP351-22405N-*</b></p> <p>Pin Count: 224 Body Size: 16.0x16.0 Base Socket: 38.0x38.0 Page No.: D-51</p>	 <p><b>NP351-24099-*</b></p> <p>Pin Count: 240 Body Size: 16.0x16.0 Base Socket: 40.0x40.0 Page No.: D-51</p>
---	--

# NP351 Series (Open Top) Fine Ball Grid Array Layouts (FBGA, 0.80mm Pitch)

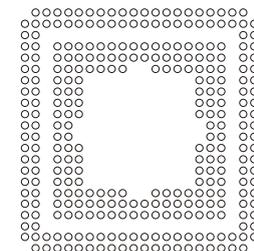
## Grid Size 21 x 21



NP351-21653 AC.14425

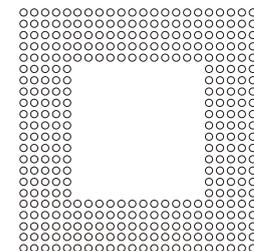
Pin Count: 320  
 Body Size: 18.0x18.0  
 Base Socket: 47.0x47.0  
 Page No.: D-52

## Grid Size 22 x 22



NP351-30413-\*

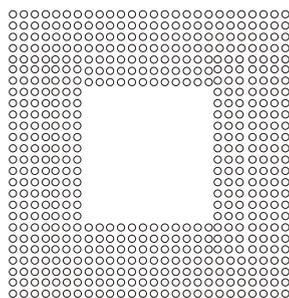
Pin Count: 304  
 Body Size: 19.0x19.0  
 Base Socket: 47.0x47.0  
 Page No.: D-52



NP351-30431-\*

Pin Count: 340  
 Body Size: 20.0x20.0  
 Base Socket: 47.0x47.0  
 Page No.: D-52

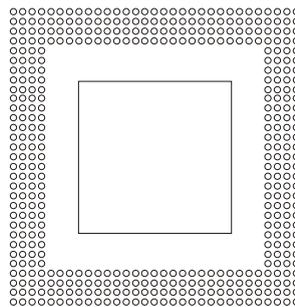
## Grid Size 26 x 26



NP351-532-83-\*

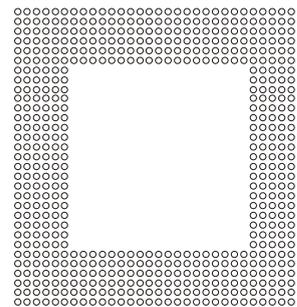
Pin Count: 532  
 Body Size: 23.0x23.0  
 Base Socket: 47.0x47.0  
 Page No.: D-52

## Grid Size 31 x 31



NP351-43216-\*

Pin Count: 432  
 Body Size: 27.0x27.0  
 Base Socket: 56.0x56.0  
 Page No.: D-52



NP351-52009-\*

Pin Count: 520  
 Body Size: 27.0x27.0  
 Base Socket: 56.0x56.0  
 Page No.: D-52