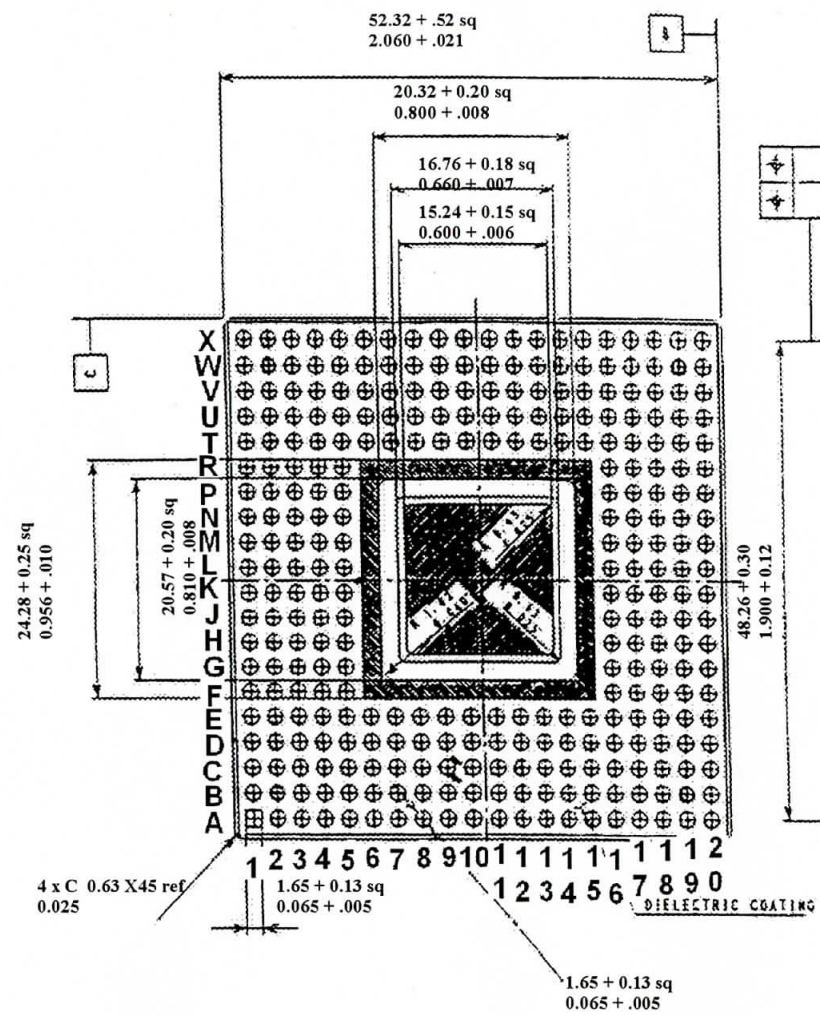
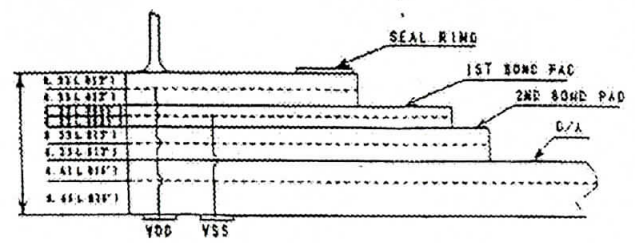
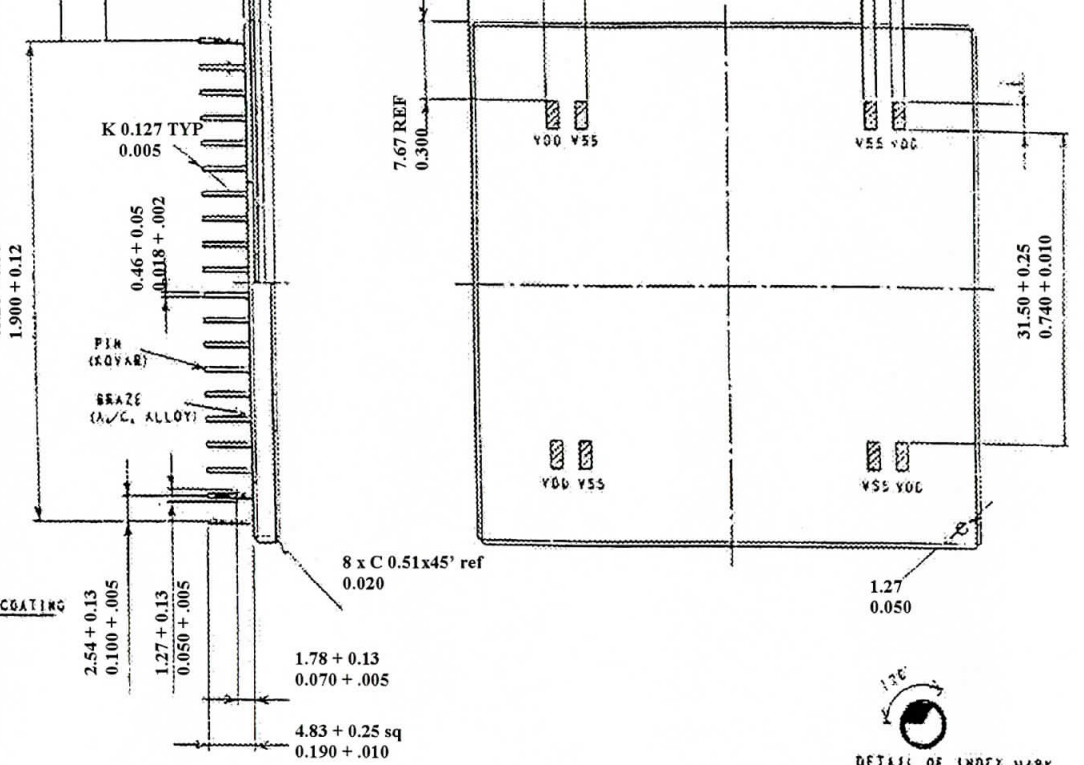
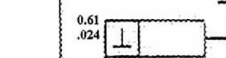


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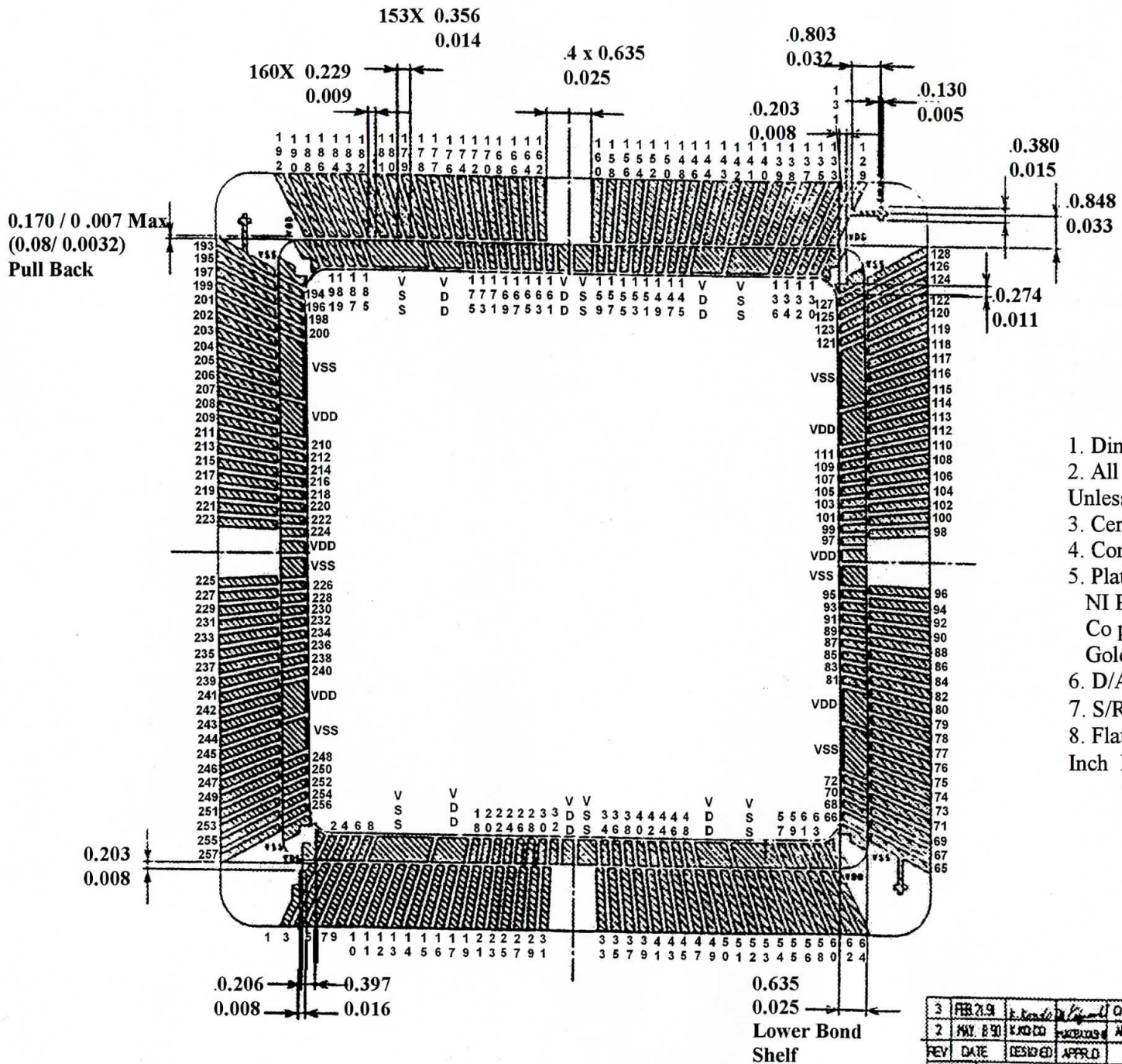


0.51	B	C	4: III
0.020	B	C	
1.12	B	C	4: III
0.044	B	C	



3	FEB 21 91	K.KO-CD	YOSHIDA	CHANGED C/C PAD DIM TOLERANCE AND ADDED NOTE E IN 965A
2	MAY 8 90	K.KO-CD	YOSHIDA	ADDED DIM. OF C/C PAD POSITION
REV	DATE	DESIGNED	APPROV	DESCRIPTION
DATA	DESIGNED	CHECKED	APPR D	TITLE
MAY 8 90	K.KO-CD	M.KASAI	YOSHIDA	PGA299-965
NOTE	VLSI TECH	SHINKO ELECTRIC INDUSTRIES CO., LTD		PROJ SCALE DRAWING NO
				HL-1468
				SHEET 1 OF 3

234 X



1. Dimension Millimeter/ Inch
2. All TOL + 0.13 MM
Unless otherwise specified
3. Ceramic Dark Opaque
4. Conductor Material Tungsten
5. Plating
NI Plated 1.0 um
Co plated 2.0 um Co 99.0% min
Gold Plated 1.5 um min
6. D/A Shall be flat within 0.05 MM
7. S/R shall be flat within 0.08 MM
8. Flatness of package overall .005-/
Inch Max

3	FEB 79	K. Kondo	M. Kasai	CHANGED C/C PAD DIM TOLERANCE AND ADDED NOTE 8	M. Kasai
2	MAY 89	K.KONDO	MUKASAI	ADDED DIM. OF C/C PAD POSITION	
REV	DATE	DESIGNED	APPROV	DESCRIPTION	
DATA	DESIGNED	CHECKED	APPROV	TITLE	
MAY 89	K.KONDO	MUKASAI	MUKASAI	PGA299-965	
		PROJ. NO.	SCALE	DRAWING NO.	REV.
		ANGLE	2:1	HL-1468	3
					SHEET 1 OF 3

PAD - PIN	PAD - PIN	PAD - PIN	PAD - PIN	PAD - PIN	PAD - PIN	PAD - PIN	PAD - PIN	PAD - PIN
1 - C 3	36 - E 11	71 - E 17	106 - P 20	141 - X 16	176 - X 6	211 - P 3	246 - E 2	VDD - A 3
2 - E 5	37 - B 13	72 - G 16	107 - M 16	142 - V 15	177 - V 7	212 - N 4	247 - E 3	VDD - A 9
3 - B 3	38 - C 11	73 - D 19	108 - N 18	143 - W 15	178 - W 6	213 - R 1	248 - G 4	VDD - A 11
4 - E 6	39 - A 14	74 - E 18	109 - N17	144 - U 14	179 - X 5	214 - M 5	249 - D 2	VDD - A 13
5 - C 4	40 - C 12	75 - D 20	110 - P 19	145 - T 13	180 - V 6	215 - P 2	250 - G 5	VDD - A 18
6 - D 6	41 - C 13	76 - E 19	111 - N 16	146 - X 15	181 - W 5	216 - M 4	251 - D 3	VDD - A 20
7 - D 5	42 - D 12	77 - F 18	112 - R 20	147 - U 13	182 - X 4	217 - N 3	252 - F 4	VDD - C 20
8 - E 7	43 - B 14	78 - E 20	113 - P 18	148 - V 14	183 - V 5	218 - M 3	253 - C 2	VDD - J 20
9 - B 4	44 - E 12	79 - G 17	114 - R 19	149 - T 12	184 - W 4	219 - P 1	254 - E 4	VDD - L 20
10 - C 5	45 - A 15	80 - F 19	115 - T 20	150 - W 14	185 - U 7	220 - L 3	255 - B 2	VDD - V 20
11 - B 5	46 - D 13	81 - H 16	116 - R 18	151 - U 12	186 - U 5	221 - N 2	256 - F 5	VDD - X 20
12 - A 5	47 - C 14	82 - G 18	117 - T 19	152 - X 14	187 - T 7	222 - L 5	257 - D 4	VDD - X 18
13 - C 6	48 - E 13	83 - H 17	118 - U 20	153 - V 12	188 - V 4	223 - M 2		VDD - X 12
14 - B 6	49 - B 15	84 - F 20	119 - T 18	154 - V 13	189 - U 6	224 - L 4		VDD - X 10
15 - D 7	50 - A 16	85 - J 16	120 - U 19	155 - V 11	190 - W 3	225 - L 2	VSS - A 2	VDD - X 8
16 - A 6	51 - C 15	86 - G 19	121 - P 17	156 - W 13	191 - T 6	226 - K 4	VSS - A 4	VDD - X 2
17 - C 7	52 - B 16	87 - J 17	122 - T 17	157 - T 11	192 - V 3	227 - K 2	VSS - A 10	VDD - W 1
18 - E 8	53 - A 17	88 - H 18	123 - P 16	158 - X 13	193 - U 4	228 - K 5	VSS - A 12	VDD - M 1
19 - B 7	54 - C 16	89 - J 18	124 - U 18	159 - U 11	194 - T 5	229 - J 2	VSS - A 19	VDD - K 1
20 - D 8	55 - B 17	90 - G 20	125 - R 17	160 - W 12	195 - W 2	230 - K 3	VSS - B 20	VDD - D 1
21 - A 7	56 - D 16	91 - K 18	126 - V 19	161 - U 10	196 - R 5	231 - H 1	VSS - H 20	VDD - B 1
22 - E 9	57 - D 14	92 - H 19	127 - R 16	162 - W 11	197 - V 2	232 - J 3	VSS - K 20	
23 - C 8	58 - C 17	93 - K 16	128 - V 18	163 - T 10	198 - R 4	233 - H 2	VSS -M 20	D/A - NC
24 - D 9	59 - E 14	94 - J 19	129 - U 17	164 - W 10	199 - U 3	234 - J 4	VSS - W20	S/R - NC
25 - B 8	60 - B 18	95 - K 17	130 - T 16	165 - V 10	200 - P 5	235 - H 3	VSS - X 19	
26 - C 9	61 - D 15	96 - K 19	131 - W 19	166 - W 9	201 - T 4	236 - J 5	VSS - X 17	
27 - A 8	62 - B 19	97 - L 17	132 - T 15	167 - V 9	202 - U 2	237 - G 1	VSS -X 11	
28 - C 10	63 - E 15	98 - L 19	133 - W 18	168 - W 8	203 - T 3	238 - H 4	VSS - X 9	
29 - B 9	64 - D 17	99 - L 16	134 - U 15	169 - U 9	204 - U 1	239 - G 2	VSS - X 3	
30 - E 10	65 - C 18	100 - M 19	135 - V 17	170 - X 7	205 - T 2	240 - H 5	VSS - X 1	
31 - B 10	66 - E 16	101 - L 18	136 - T 14	171 - T 9	206 - R 3	241 - G 3	VSS - V 1	
32 - D 10	67 - C 19	102 - N 20	137 - U 16	172 - V 8	207 - T 1	242 - F 1	VSS - N 1	
33 - B 11	68 - F 16	103 - M 18	138 - W 17	173 - U 8	208 - P 4	243 - F 2	VSS - L 1	
34 - D 11	69 - D 18	104 - N 19	139 - V 16	174 - W 7	209 - R 2	244 - F 3	VSS - J 1	
35 - B 12	70 - F 17	105 - M 17	140 - W 16	175 - T 8	210 - N 5	245 - E 1	VSS - C 1	