

- Connects to high density plastic TQFP or SQFP surface mounted chip leads.
- Locking feature insures positive retention on the chip in either vertical or horizontal position.
- Gold plated contacts for the chip leads and the connector pins assure noise free connection.

The patented locking mechanism holds the clip on the device by gripping the chip body at the corners of the chip body. The clip contacts are manufactured by a patented process which assures alignment.

The image contains several mechanical drawings of a 144-pin TQFP package:

- Top View:** A square package with a side length of 1.05 SQ. A hatched area in the bottom-left corner is labeled "KEEP OUT AREA". A circular feature in the center is labeled "Pin #1". A chamfer on the bottom edge is labeled "Chamfer PGA 'A1'". The distance from the bottom edge to the center of the package is 1.35. The distance from the center to the bottom edge is .10 TYP. The total width of the package is 1.35.
- Bottom View:** A side view of the package showing the pins. The pins are labeled "UP - UNLOCKED". The distance from the top of the package to the bottom of the pins is .09 MAX. The distance from the top of the package to the bottom of the pins is .74. The distance from the bottom of the pins to the bottom of the package is .24. The distance from the center of the package to the bottom of the pins is .98. The total width of the package is 1.23.
- Side View:** A side view of the package showing the pins. The pins are labeled "DOWN - LOCKED". The distance from the top of the package to the bottom of the pins is .74. The distance from the bottom of the pins to the bottom of the package is .24. The distance from the center of the package to the bottom of the pins is .98. The total width of the package is 1.23.
- PGA Adapter Pin:** A drawing of a pin with a diameter of $\phi 0.023$. The length of the pin is .48. The distance from the top of the pin to the bottom of the pin is .17. The distance from the bottom of the pin to the bottom of the package is .16.
- 144 Pin TQFP (Typical):** A drawing of a square package with a side length of 20.0. The distance from the center of the package to the bottom edge is 22.0. The distance from the center of the package to the bottom edge is 1.4 Max.

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PGA Socket Layout with QFP Leads

13	1	143	144	142	137	132	127	122	117	113	111	110	109
12	2	7	140	141	136	131	126	121	116	112	114	115	107
11	3	6	10	139	138	133	128	124	123	119	118	104	108
10	5	4	11	12	135	134	130	129	125	120	103	105	106
9	9	8	15	17						99	102	100	101
8	14	13	16	21						98	97	95	96
7	19	18	20	22						94	92	90	91
6	24	23	25	26						93	88	85	86
5	29	28	30	27						89	87	80	81
4	34	33	31	48	53	57	58	62	63	84	83	76	77
3	36	32	46	47	51	52	56	61	66	67	82	78	75
2	35	43	42	40	44	49	54	59	64	69	68	79	74
1	37	38	39	41	45	50	55	60	65	70	72	71	73
	A	B	C	D	E	F	G	H	J	K	L	M	N

All dimensions are in inches. Tolerances (except noted): .xx = ±.02" (.51 mm), .xxx = ±.005" (.127 mm).
All specifications are to the latest revisions. Specifications are subject to change without notice.
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