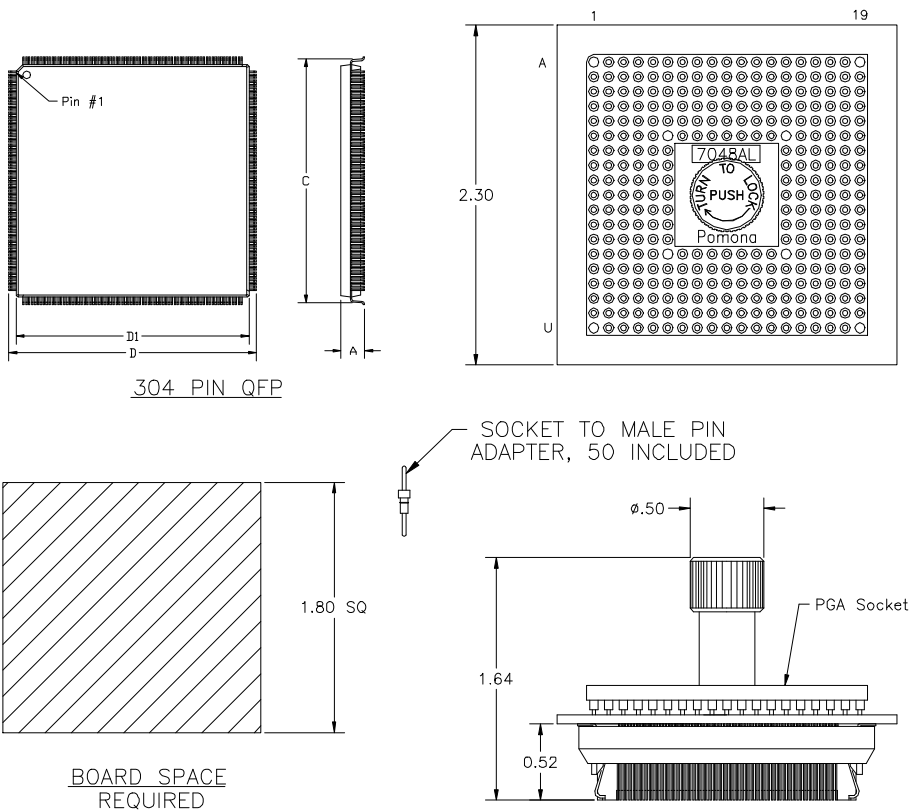


Model 7048AL 304 Lead QFP Locking Test Clip 0.50mm Lead Pitch

These new locking test clips provide the user with an easy and reliable means to connect instrumentation to the SMT leads of 304 pin plastic quad flatpack (QFP) chips.

The special locking fingers at each corner attach to the body of the chip and hold the clip firmly against the chip leads.

- Locking fingers attach to the chip body and allow testing of vertical boards.
- A custom designed interface with high density plastic, metal and ceramic QFP surface mount chip leads.
- Gold plated PGA sockets assure noise free connections. A package of 50 adapter pins are included in the package. Packages of 100 pins are available. (To order additional packages, use part number 7056.)



Pomona's test clips are designed to be used by system designers, and others who use logic analyzers or emulators, in field service & lab testing, and for failure analysis. Other clips are also available in other sizes to fit the most popular QFP chips now in use.

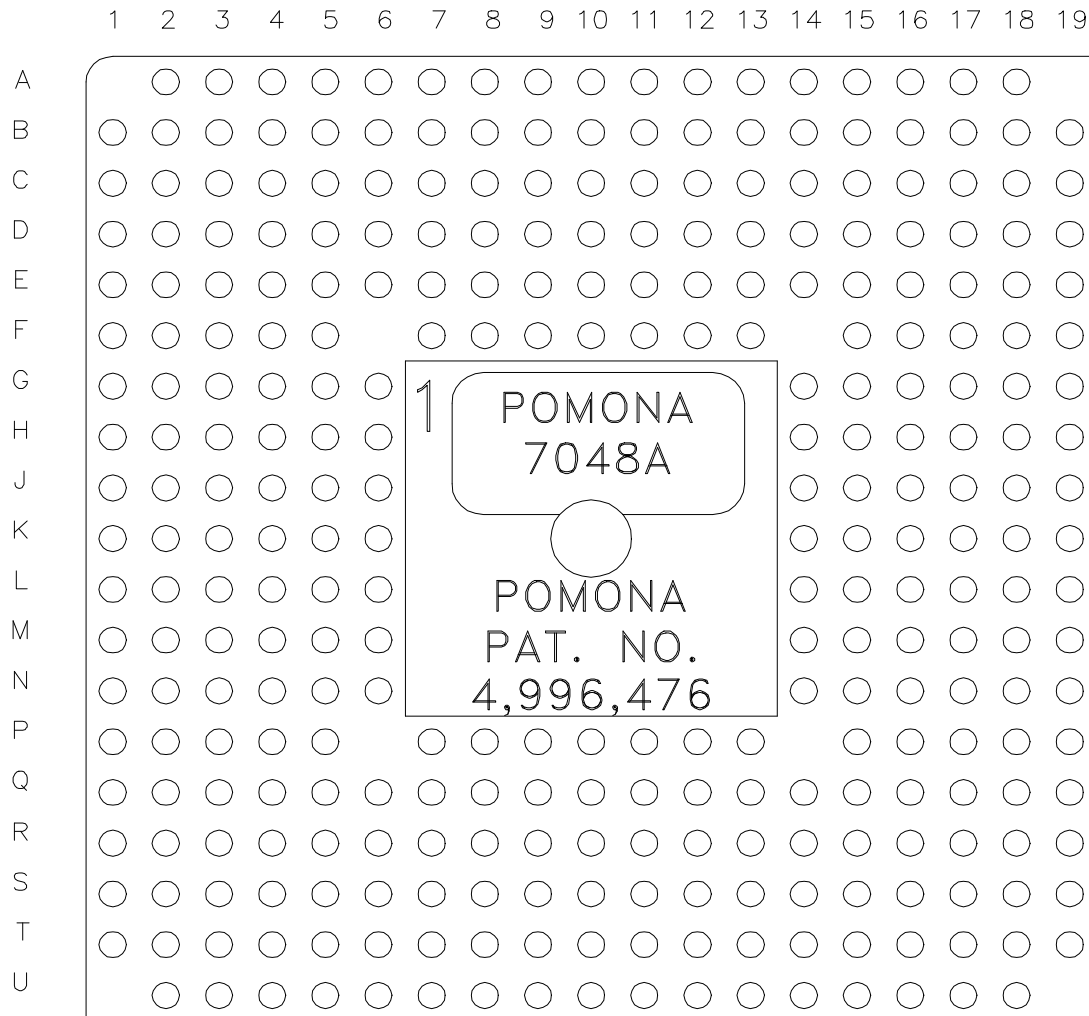
LEADS D	BODY D1	CRITICAL DIM C	Max Height A	Typical Applications	PART NO.
42.0 mm	40.0mm	1.650"	4.0 mm	Plastic: JEDEC MO-143, ALTERA EPF81500, LSI, NEC, etc.	7048AL

All dimensions are in inches. Tolerances (except noted): .xx = ± 0.02 " (.51 mm), .xxx = $\pm .005$ " (.127 mm).
All specifications are to the latest revisions. Specifications are subject to change without notice.
Registered trademarks are the property of their respective companies. Made in USA

PGA Socket Layout (Top View of Socket)

The PGA socket is carefully routed to convert from the OFP by the shortest route. Note that each 90° quadrant is routed in the same pattern.

QFP Pin #1 is located near PGA position D1.



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PGA To QFP Pin Map

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
A		301	298	296	287	282	276	271	266	262	257	251	247	241	235	232	231	229		A
B	1	302	299	294	289	284	277	272	267	263	258	252	248	242	236	233	230	226	225	B
C	3	2	304	303	293	290	283	278	273	268	261	256	250	243	238	234	228	223	222	C
D	4	5	6	300	295	291	285	279	274	269	260	254	246	240	237	224	227	218	220	D
E	7	8	10	9	297	292	286	280	275	265	259	253	245	239	221	219	217	213	211	E
F	13	14	15	12	11		288	281	270	264	255	249	244		216	215	214	208	206	F
G	19	20	22	18	17	16								212	210	209	207	201	200	G
H	23	24	28	26	25	21								205	204	203	202	196	195	H
J	29	30	33	32	31	27								194	199	198	197	191	190	J
K	34	35	40	41	37	36								188	189	193	192	187	186	K
L	38	39	45	46	47	42								179	183	184	185	182	181	L
M	43	44	50	51	52	53								173	177	178	180	176	175	M
N	48	49	55	57	58	60								168	169	170	174	172	171	N
P	54	56	62	63	64		92	97	103	112	118	129	136		163	164	167	166	165	P
Q	59	61	65	67	69	87	93	101	107	113	123	128	134	140	145	161	162	160	159	Q
R	68	66	75	72	85	88	94	102	108	117	122	127	133	139	143	148	158	157	156	R
S	70	71	76	82	86	91	98	104	109	116	121	126	131	138	141	151	152	154	155	S
T	73	74	78	81	84	90	96	100	106	111	115	120	125	132	137	142	147	150	153	T
U		77	79	80	83	89	95	99	105	110	114	119	124	130	135	144	146	149		U
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

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