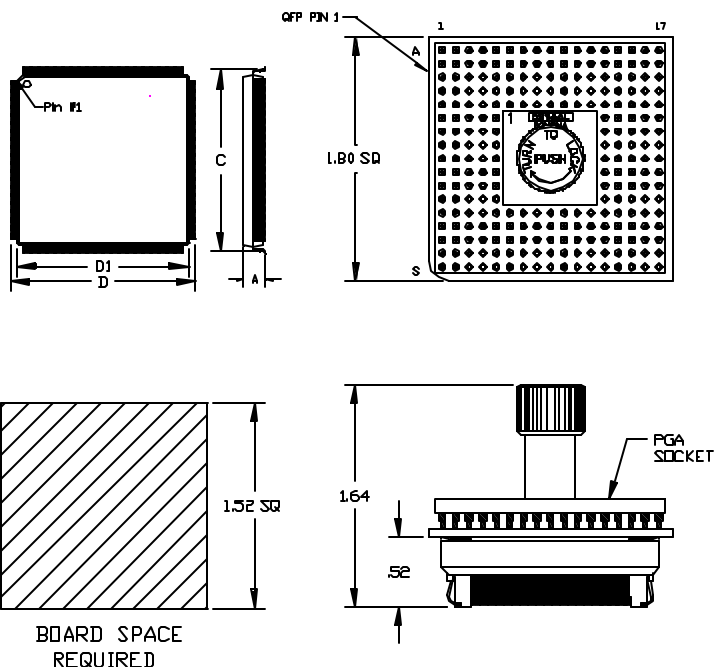


Model 5998AL, 5998AL-1 & 5998AL-2 240 Lead QFP Locking Test Clip 0.50 mm Lead Pitch

These new locking test clips provide the user with an easy and reliable means to connect instrumentation to the SMT leads of 240 pin plastic, metal and ceramic 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 contacts and PGA sockets assure noise free connections.



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.

Pomona offers test clips for a wide range of QFP chip sizes. See our catalog for the full line.

LEAD D	BODY D1	CRITICAL DIM C	HT A	Typical Applications	Part No.
34.6mm	32.0mm	1.330"	4.0 MAX	Plastic: MC68360, Altera Flex 8000, A/D ADSP-21060, VLSI, LSI L1A4474, AMD Tidalwave, Toshiba 93F3167	5998AL
34.6mm	31.62mm	1.330"	4.0 MAX	Metal: Altera, LSI 240 MQUAD, Xilinx XC4025-MQ240 Ceramic: IBM 603, Motorola 240 CQFP	5998AL-1
34.6mm	31.06mm	1.330"	4.0 MAX	Ceramic: XC68360, MPC603	5998AL-2

PGA To QFP Interconnect Plan

All dimensions are in inches. Tolerances (except noted): .xx = ±.02" (.51 mm), .xxx = ±.005" (.127 mm).

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

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

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PGA	QFP	M3	46	Q9	92	M17	137	C15	182
B2	1	N2	47	R10	93	L13	138	A15	183
C3	2	L5	48	P9	94	M16	139	D14	184
C1	3	PGA	QFP	S10	95	L14	140	B15	185
D4	4	M4	50	Q10	96	L17	141	C14	186
C2	5	P2	51	R11	97	L15	142	B14	187
D3	6	N3	52	P10	98	L16	143	D13	188
D2	7	Q1	53	PGA	QFP	K13	144	A14	189
E4	8	M5	54	S11	99	K16	145	C13	190
D1	9	P1	55	N10	100	K15	146	A13	191
E3	10	P3	56	R12	101	K17	147	E12	192
E1	11	Q2	57	Q11	102	PGA	QFP	A16	193
F5	12	N4	58	S16	103	K14	148	D12	194
B1	13	S1	59	P11	104	J16	149	B13	195
F4	14	N5	60	S12	105	J13	150	C12	196
E2	15	R2	61	Q12	106	J17	151	PGA	QFP
F3	16	Q3	62	R13	107	J15	152	A12	197
F1	17	S3	63	N11	108	H16	153	E11	198
G5	18	P4	64	S13	109	J14	154	B12	199
F2	19	R3	65	P12	110	H17	155	D11	200
G4	20	Q4	66	R14	111	H15	156	A11	201
G1	21	R4	67	Q13	112	G16	157	C11	202
G3	22	P5	68	S15	113	H14	158	B11	203
G2	23	S4	69	N12	114	G17	159	F10	204
H5	24	Q5	70	S14	115	H13	160	B10	205
H2	25	S5	71	Q14	116	F16	161	C10	206
H3	26	N6	72	R15	117	G15	162	A10	207
H1	27	S2	73	P13	118	B17	163	D10	208
H4	28	P6	74	S17	119	G14	164	B9	209
J2	29	R5	75	N13	120	F17	165	E9	210
J5	30	Q6	76	R16	121	F15	166	A9	211
J1	31	S6	77	Q15	122	E16	167	C9	212
J3	32	N7	78	Q17	123	G13	168	B8	213
K2	33	R6	79	P14	124	E17	169	D9	214
J4	34	P7	80	Q16	125	F14	170	A8	215
K1	35	S7	81	P15	126	D16	171	C8	216
K3	36	Q7	82	P16	127	E15	172	B7	217
L2	37	R7	83	N14	128	C17	173	D8	218
K4	38	N8	84	P17	129	F13	174	A7	219
L1	39	R8	85	N15	130	D17	175	E8	220
K5	40	Q8	86	N17	131	D15	176	B6	221
M2	41	S8	87	M13	132	C16	177	C7	222
L3	42	P8	88	R17	133	E14	178	A2	223
R1	43	R9	89	M14	134	A17	179	D7	224
L4	44	N9	90	N16	135	E13	180	A6	225
M1	45	S9	91	M15	136	B16	181	C6	226

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B5	227	D6	230	A3	233	C4	236	A1	239
E7	228	B4	231	E6	234	B3	237	E5	240
A5	229	C5	232	A4	235	D5	238		
NI	49								

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Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com