

Model 5998A, 5998A-1 & 5998A-2 240 Lead QFP Test Clip with PGA, .50 mm Lead Pitch

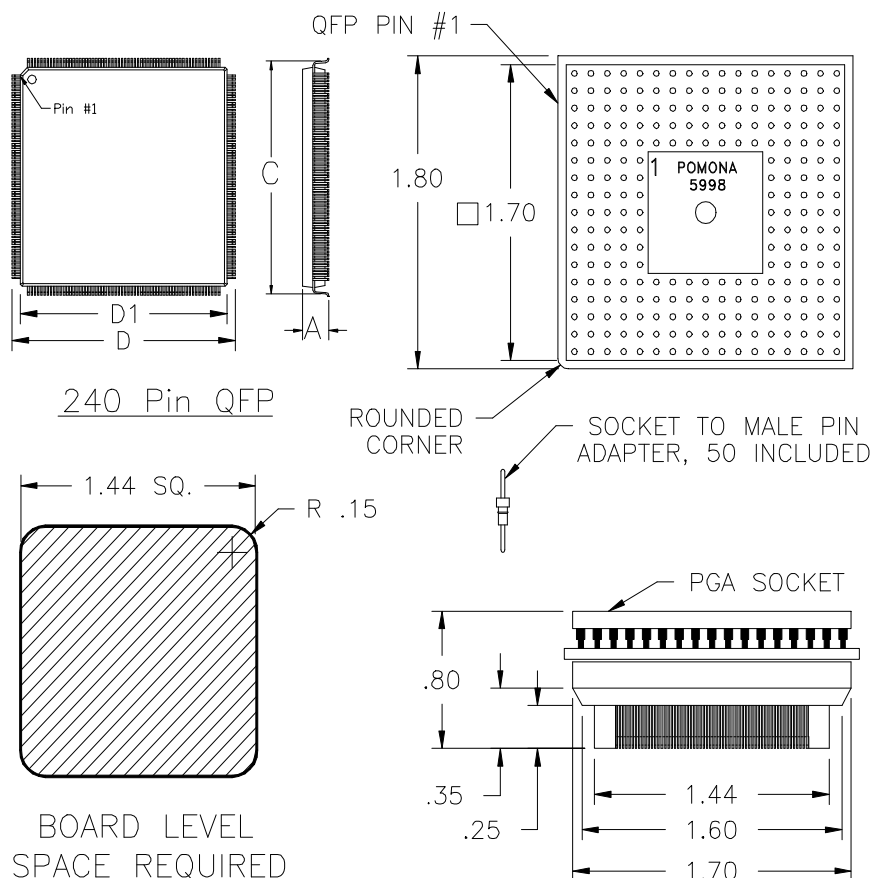
These new test clips provide the user with an easy means to connect instrumentation to the SMT leads of 240 pin plastic, metal and ceramic quad flatpack (QFP) chips.

The clip mechanically attaches to a surface mounted chip. See pages 2 & 3 for PGA layout and interconnect details.

- ♦ A custom designed interface with high density plastic, metal and ceramic QFP surface mount chip leads.
- ♦ Two-stage alignment assures positive connection.
- ♦ Gold plated contacts and PGA sockets assure noise free connections.
- ♦ PGA sockets fit standard PGA pins.

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	5998A
34.6mm	31.62mm	1.330"	4.0 MAX	Metal: Altera, LSI 240 MQUAD, Xilinx XC4025-MQ240 Ceramic: IBM 603, Motorola 240 CQFP	5998A-1
34.6mm	31.06mm	1.330"	4.0 MAX	Ceramic: XC68360, MPC603	5998A-2

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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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
B	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
C	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
D	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
E	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
F	○	○	○	○	○								○	○	○	○	○
G	○	○	○	○	○								○	○	○	○	○
H	○	○	○	○	○								○	○	○	○	○
J	○	○	○	○	○								○	○	○	○	○
K	○	○	○	○	○								○	○	○	○	○
L	○	○	○	○	○								○	○	○	○	○
M	○	○	○	○	○								○	○	○	○	○
N	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
P	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Q	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
R	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
S	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

The PGA socket is routed to convert from the QFP to PGA by the shortest route. Note that each quadrant is identical, only rotated 90°.

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PGA	QFP	PGA	QFP	PGA	QFP	PGA	QFP	PGA	QFP	PGA	QFP
B2	1	L3	42	R7	83	P14	124	F17	165	C10	206
C3	2	R1	43	N8	84	Q16	125	F15	166	A10	207
C1	3	L4	44	R8	85	P15	126	E16	167	D10	208
D4	4	M1	45	Q8	86	P16	127	G13	168	B9	209
C2	5	M3	46	S8	87	N14	128	E17	169	E9	210
D3	6	N2	47	P8	88	P17	129	F14	170	A9	211
D2	7	L5	48	R9	89	N15	130	D16	171	C9	212
E4	8	N1	49	N9	90	N17	131	E15	172	B8	213
D1	9	M4	50	S9	91	M13	132	C17	173	D9	214
E3	10	P2	51	Q9	92	R17	133	F13	174	A8	215
E1	11	N3	52	R10	93	M14	134	D17	175	C8	216
F5	12	Q1	53	P9	94	N16	135	D15	176	B7	217
B1	13	M5	54	S10	95	M15	136	C16	177	D8	218
F4	14	P1	55	Q10	96	M17	137	E14	178	A7	219
E2	15	P3	56	R11	97	L13	138	A17	179	E8	220
F3	16	Q2	57	P10	98	M16	139	E13	180	B6	221
F1	17	N4	58	S11	99	L14	140	B16	181	C7	222
G5	18	S1	59	N10	100	L17	141	C15	182	A2	223
F2	19	N5	60	R12	101	L15	142	A15	183	D7	224
G4	20	R2	61	Q11	102	L16	143	D14	184	A6	225
G1	21	Q3	62	S16	103	K13	144	B15	185	C6	226
G3	22	S3	63	P11	104	K16	145	C14	186	B5	227
G2	23	P4	64	S12	105	K15	146	B14	187	E7	228
H5	24	R3	65	Q12	106	K17	147	D13	188	A5	229
H2	25	Q4	66	R13	107	K14	148	A14	189	D6	230
H3	26	R4	67	N11	108	J16	149	C13	190	B4	231
H1	27	P5	68	S13	109	J13	150	A13	191	C5	232
H4	28	S4	69	P12	110	J17	151	E12	192	A3	233
J2	29	Q5	70	R14	111	J15	152	A16	193	E6	234
J5	30	S5	71	Q13	112	H16	153	D12	194	A4	235
J1	31	N6	72	S15	113	J14	154	B13	195	C4	236
J3	32	S2	73	N12	114	H17	155	C12	196	B3	237
K2	33	P6	74	S14	115	H15	156	A12	197	D5	238
J4	34	R5	75	Q14	116	G16	157	E11	198	A1	239
K1	35	Q6	76	R15	117	H14	158	B12	199	E5	240
K3	36	S6	77	P13	118	G17	159	D11	200		
L2	37	N7	78	S17	119	H13	160	A11	201		
K4	38	R6	79	N13	120	F16	161	C11	202		
L1	39	P7	80	R16	121	G15	162	B11	203		
K5	40	S7	81	Q15	122	B17	163	F10	204		
M2	41	Q7	82	Q17	123	G14	164	B10	205		

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