

TEST & BURN-IN, PRODUCTION, PROTOTYPING SOCKETS AND RECEPTACLES

ET is proud to carry several thousand different sockets to meet your unique applications. When you're looking for a socket solution, ET is your one-stop shop providing you with the resources to quickly and accurately find the right socket to meet your needs. Whether you are looking for an off-the-shelf solution or a custom design, our technical staff can assist you.

How to Choose The Right Socket

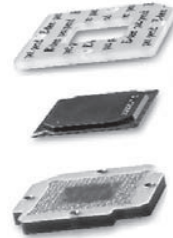
Finding the right socket for your project is easy. Gathering the following key characteristics will assist you in finding the correct ET part number:

1. Pin count
2. Chip size
3. Grid size
4. Socket style (Burn-in, Surface Mount)
5. Bandwidth of chip

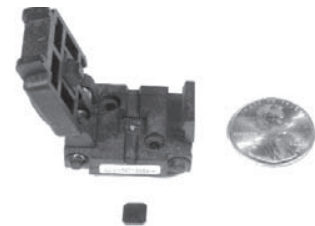
When you are ready to order, please provide the following:

1. Chip manufacturer, part number, and package outline drawing
2. Socket style: Production, Test & Burn-in, SMT or Thru Hole
3. Quantity and delivery requirements

See our complete socket listing online: www.1800adapter.com/049



BGA Screw Lock Production Sockets
Page 130



QFN/MLF ZIF Sockets
Page 149

CUSTOMS	CUSTOM Configurations Available	SOCKET TYPES	CONTACT TYPES	SOCKET SPEED	SOCKET SOLUTIONS				Catalog Page	
					Dual Beam	Pogo Pin / Spring Probe	Elastomer	<1 GHz		Up to 3 GHz
									BGA (Ball Grid Array) Sockets	
	X		X X		X				BGA SMT & Thru-hole Development up to 3 GHz	130-133
	X	X	X		X				BGA SMT & Thru-hole Knob Lock	134
	X		X		X				BGA SMT & Thru-hole ZIF Lock up to 3 GHz	135
	X	X	X X			X			BGA Custom High Speed 4.6 to 14 GHz BGA Sockets	136
	X			X			X		BGA High Performance up to 40 GHz	137
	X		X X	X			X		BGA (BPE) Base Package Emulators	138, 139
	X		X X	X			X		BGA (FPA) Flat Pin Array	140, 141
	X		X X	X			X		BGA (XPA) Extender	142
	X	X	X X			X			BGA Chip Screening Socket System	143
	X		X X	X			X		HiLo Flexible Interconnect System up to 9.3 GHz	144, 145
	X	X	X	X					Micro-BGA & BGA Sockets—Test & Burn-In	146-148
									non-BGA Sockets	
	X	X	X	X X	X				QFN/MLF, MAP, TAP, LAP Sockets	149
	X	X	X X	X	X				TSOP/TSSOP, SOJ, SOIC	150
	X	X	X X	X	X				SSO/DIP/SDIP	151
	X	X	X	X	X				PQFP/TQFP Sockets—Test & Burn-in/ SMT	154, 155
	X	X	X	X	X				PGA Test & Burn-in	156, 157
	X	X	X		X				PLCC Chip Screening Socket System	143
	X	X	X	X	X				PGA & HGA Test & Burn-in	157
		X	X	X	X				PLCC Sockets—Burn-in/Production	158
									Socket Receptacles	24, 25
	X	X	X X	X					Socket Receptacles	152, 153

SOCKETS - BGA SMT AND THRU-HOLE DEVELOPMENT UP TO 3 GHz

SCREW LOCK SOCKETS

These sockets can be either surface mount or thru-hole mount to your target PCB - for ease of chip insertion and removal utilizing a screw lock lid.

FEATURES & BENEFITS

- Available for ceramic, plastic BGA and land grid array (LGA)
- Screw lock compression type socket guarantees contact continuity even under the highest shock and vibration
- Thru-hole version eliminates surface mount soldering problems
- Easily exchange and replace chips with no desoldering required
- Utilizes solder paste or solder flux and industry standard rework stations
- Prevents time-consuming board revisions
- Customs available upon request

APPLICATIONS

- Development
- Debug
- Hand Test
- Programming / Test
- Qualification
- Production

BALL PITCH

- BGA (1.27mm)
- mBGA (1.00mm, 0.80mm, 0.75mm, 0.65mm, 0.50mm)

GRID SIZES

- 8X8 through 40X40

NOTE: Manufacturer's chip package drawing required with each order.

EMULATION TECHNOLOGY RECOMMENDS:

Try our **BGA Screw Lock Torque Screwdriver**

Pre-set torque screwdriver ensures correct tightening of retention frames. Ideal accessory for BGA Screw Lock Socket users.

Web Link: www.1800adapter.com/120

Try our **BGA Solder Stencils**

Residue-free adhesive backing means these stencils are self-sticking ...so you can say goodbye to tape and fixturing forever!

Web Link: www.1800adapter.com/019

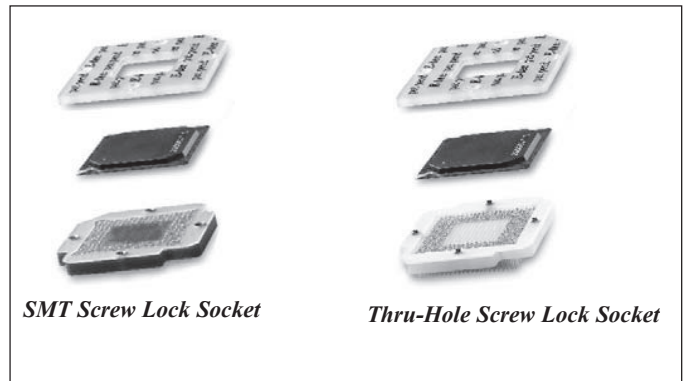
Try our **BGA Emulator Solution**

Converts ET screw-lock SMT or Thru-hole sockets into an emulator pod receptacle for JTAG or similar testing. Test. Emulate. Connect.

Web Link: www.1800adapter.com/127

For a complete list of socket specifications, pricing and delivery information, please see:

BGA Sockets: **www.1800adapter.com/048**



SMT Screw Lock Socket

Thru-Hole Screw Lock Socket

Electrical Specifications

Bandwidth	Up to 3GHz
Lead Inductance	< 2 nH
Contact Resistance	< 100m ohms
Insulation Resistance	100m ohms if 0.50 to 0.80mm pitch 500m ohms 1.00mm pitch upwards
Current Rating	500 mA max.
Capacitance	<1 pF
Breakdown Voltage at 60Hz	500 V min.

Mechanical Specifications

Contact Life	10,000 cycles minimum
Retention System Life	10,000 cycles minimum
Solderability (Method 208)	Exceeds MIL-ST D-202
Individual Contact Force	40 grams max.
Max Torque for Retention Screws	7cN per meter, or 10 oz. per inch

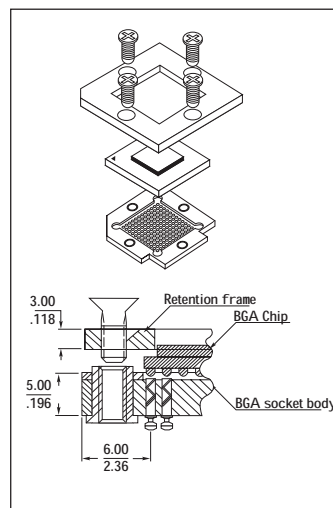
Materials

Insulator	Glass epoxy FR4
Terminal	Brass
Contact	BeCu

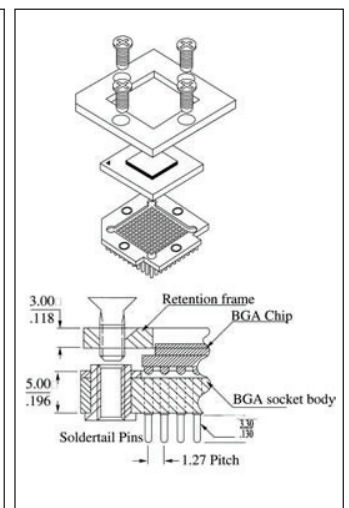
Operating Temperature

Temperature Range	-55 degrees C to + 130 degrees C
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SMT STANDARD STYLE

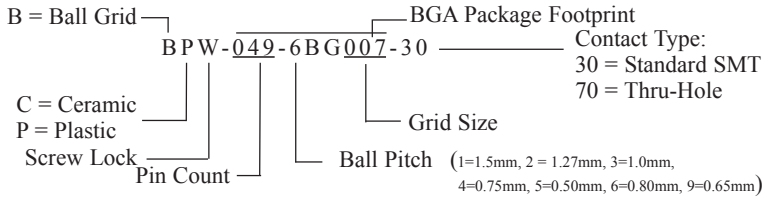


THRU-HOLE STYLE



BGA SMT & THRU-HOLE DEVELOPMENT UP TO 3 GHz - SOCKETS

Ordering Information Example



SCREW LOCK SOCKETS

For a complete list of socket specifications, pricing and delivery information, please see:

Web Link:
www.1800adapter.com/048

SOCKETS & RECEPTACLES:
 TEST & BURN-IN, PRODUCTION

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
225	27	15X15	Surface Mount	BPW-225-1BG015-30	SKT1120
225	27	15X15	Thru Hole	BPW-225-1BG015-70	SKT1123

1.27mm Ball Pitch

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
16	15.8X11.0	8X8	Surface Mount	BPW-016-2BG008-30	SKT1177
119	14X22	7X17	Surface Mount	BPW-119-2BG7X17-30	SKT846
119	14X22	7X17	Thru-hole	BPW-119-2BG7X17-70	SKT846
120	11X17	10X16	Surface Mount	BPW-120-3BG10X16-30	SKT1256
120	11X17	10X16	Thru-hole	BPW-120-3BG10X16-70	SKT1256
144	13X13	12X12	Surface Mount	BPW-144-3BG012-30	SKT1119
144	13X13	12X12	Thru-hole	BPW-144-3BG012-70	SKT1119
153	14X22	17X17	Surface Mount	BPW-153-2BG9X17-30	SKT1189
153	14X22	17X17	Thru-hole	BPW-153-2BG9X17-70	SKT1189
208	23X23	17X17	Surface Mount	BPW-208-2BG017-30	SKT992
208	23X23	17X17	Thru-hole	BPW-208-2BG017-70	SKT992
217	23X23	17X17	Surface Mount	BPW-217-2BG017-30	SKT996
217	23X23	17X17	Thru-hole	BPW-217-2BG017-70	SKT996
225	20X20	15X15	Surface Mount	BPW-225-2BG015-30	SKT1269
225	20X20	15X15	Thru-hole	BPW-225-2BG015-70	SKT1269
225	27X27	15X15	Surface Mount	BPW-225-1BG015-30	SKT1120
225	27X27	15X15	Thru-hole	BPW-225-1BG015-70	SKT1120
241	35X35	17X17	Thru-hole	BPW-241-2BG017-70	SKT952
241	23X23	17X17	Surface Mount	BPW-241-2BG017-30	SKT1343
249	23X23	17X17	Surface Mount	BPW-249-2BG017-30	SKT1273
249	23X23	17X17	Thru-hole	BPW-249-2BG017-70	SKT1273
255	23X23	16X16	Surface Mount	BPW-256-2BG016-30	SKT1066
256	23X23	16X16	Thru-hole	BPW-256-2BG016-70	SKT1066
256	27X27	20X20	Surface Mount	BPW-256-2BG020-30	SKT814
256	27X27	20X20	Thru-hole	BPW-256-2BG020-70	SKT814
256	31X31	23X23	Surface Mount	BPW-256-2BG023-30	SKT036
256	31X31	23X23	Thru-hole	BPW-256-2BG023-70	SKT036
272	27X27	20X20	Surface Mount	BPW-272-2BG020-30	SKT818
272	27X27	20X20	Thru-hole	BPW-272-2BG020-70	SKT818
272	29X29	21X21	Surface Mount	BPW-272-2BG021-30	SKT1027
272	29X29	21X21	Thru-hole	BPW-272-2BG021-70	SKT1027
289	23X23	17X17	Surface Mount	BPW-289-2BG017-30-P	SKT1512
292	27X27	20X20	Surface Mount	BPW-292-2BG020-30	SKT753
292	27X27	20X20	Thru-hole	BPW-292-2BG020-70	SKT753
308	27X27	20X20	Surface Mount	BPW-308-2BG020-30	SKT1191
308	27X27	20X20	Thru-hole	BPW-308-2BG020-70	SKT1191
316	27X27	20X20	Surface Mount	BPW-316-2BG020-30	SKT1192
316	27X27	20X20	Thru-hole	BPW-316-2BG020-70	SKT1192
324	27X27	24X24	Surface Mount	BPW-324-2BG020-30	SKT821
324	27X27	20X20	Thru-hole	BPW-324-2BG020-70	SKT821
328	27X27	20X20	Surface Mount	BPW-328-2BG020-30	SKT1327
328	27X27	20X20	Surface Mount	BPW-328-2BG020-30A	SKT1328
328	27X27	20X20	Thru-hole	BPW-328-2BG020-70	SKT1327
328	27X27	20X20	Thru-hole	BPW-328-2BG020-70A	SKT1328
329	30X30	23X23	Surface Mount	BPW-329-2BG023-30	SKT1160
329	30X30	23X23	Thru-hole	BPW-329-2BG023-70	SKT1160
336	27X27	20X20	Surface Mount	BPW-336-2BG020-30	SKT1000
336	27X27	20X20	Thru-hole	BPW-336-2BG020-70	SKT1000
348	27X27	20X20	Surface Mount	BPW-348-2BG020-30	SKT1001
348	27X27	20X20	Thru-hole	BPW-348-2BG020-70	SKT1001
352	35X35	26X26	Surface Mount	BPW-352-2BG026-30	SKT772
352	35X35	26X26	Thru-hole	BPW-352-2BG026-70	SKT772
356	27X27	20X20	Surface Mount	BPW-356-2BG020-30	SKT1176
356	27X27	20X20	Thru-hole	BPW-356-2BG020-70	SKT1176
356	35X35	26X26	Surface Mount	BPW-356-2BG026-30	SKT933

NOTE: Manufacturer's chip package drawing required with each order.

1.27mm Ball Pitch (cont.)

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
356	35X35	26X26	Thru-hole	BPW-356-2BG026-70	SKT933
360	31X31	23X23	Surface Mount	BPW-360-2BG023-30	SKT759
360	31X31	23X23	Thru-hole	BPW-360-2BG023-70	SKT759
380	31X31	24X24	Surface Mount	BPW-380-2BG024-30	SKT1324
380	31X31	24X24	Thru-hole	BPW-380-2BG024-70	SKT1324
384	37.5X37.5	28X28	Thru-hole	BPW-384-2BG028-70	SKT1618
388	35X35	26X26	Surface Mount	BPW-388-2BG026-30	SKT817
388	35X35	26X26	Thru-hole	BPW-388-2BG026-70	SKT817
409	31X31	23X23	Surface Mount	BPW-409-2BG023-30	SKT1029
409	31X31	23X23	Thru-hole	BPW-409-2BG023-70	SKT1029
416	31X31	30X30	Surface Mount	BPW-416-2BG030-30	SKT1134
416	31X31	30X30	Thru-hole	BPW-416-2BG030-70	SKT1134
420	35X35	26X26	Surface Mount	BPW-420-2BG026-30	SKT1002
420	35X35	26X26	Thru-hole	BPW-420-2BG026-70	SKT1002
421	31X31	23X23	Surface Mount	BPW-421-2BG023-30	SKT951
421	31X31	23X23	Thru-hole	BPW-421-2BG023-70	SKT951
432	40X40	31X31	Surface Mount	BPW-432-2BG031-30	SKT934
432	40X40	31X31	Thru-hole	BPW-432-2BG031-70	SKT934
480	37.5X37.5	29X29	Surface Mount	BPW-480-2BG029-30	SKT947
480	37.5X37.5	29X29	Thru-hole	BPW-480-2BG029-70	SKT947
484	30X30	22X29	Surface Mount	BPW-484-2BG022-30	SKT1274
484	30X30	22X29	Thru-hole	BPW-484-2BG022-70	SKT1274
492	35X35	26X26	Surface Mount	BPW-492-2BG026-30	SKT1005
492	35X35	26X26	Thru-hole	BPW-492-2BG026-70	SKT1005
500	40X40	30X30	Surface Mount	BPW-500-2BG030-30	SKT869
500	40X40	30X30	Thru-hole	BPW-500-2BG030-70	SKT869
516	35X35	26X26	Surface Mount	BPW-516-2BG026-30	SKT1300
516	35X35	26X26	Thru-hole	BPW-516-2BG026-70	SKT1300
520	35X35	26X26	Surface Mount	BPW-520-2BG026-30	SKT1276
520	35X35	26X26	Thru-hole	BPW-520-2BG026-70	SKT1276
528	40X40	30X30	Surface Mount	BPW-528-2BG030-30	SKT1149
528	40X40	30X30	Thru-hole	BPW-528-2BG030-70	SKT1149
548	40X40	26X26	Surface Mount	BPW-548-2BG026-30	SKT1071
548	40X40	26X26	Thru-hole	BPW-548-2BG026-70	SKT1071
560	42.5X42.5	33X33	Surface Mount	BPW-560-2BG033-30	SKT781
560	42.5X42.5	33X33	Thru-hole	BPW-560-2BG033-70	SKT781
564	40X40	30X30	Surface Mount	BPW-564-2BG030-30	SKT1562
564	40X40	30X30	Thru-hole	BPW-564-2BG030-70	SKT1562
576	40X40	30X30	Surface Mount	BPW-576-2BG030-30	SKT1030
576	40X40	30X30	Thru-hole	BPW-576-2BG030-70	SKT1030
596	40X40	30X30	Surface Mount	BPW-596-2BG030-30	SKT1199
596	40X40	30X30	Thru-hole	BPW-596-2BG030-70	SKT1199
600	45X45	35X35	Surface Mount	BPW-600-2BG035-30	SKT806
600	45X45	35X35	Thru-hole	BPW-600-2BG035-70	SKT806
600	45X45	35X35	Surface Mount	BPW-600-2BG035B-30	SKT1553
600	45X45	35X35	Thru-hole	BPW-600-2BG035B-70	SKT1553
652	45X45	35X35	Surface Mount	BPW-652-2BG035-30	SKT949
652	45X45	35X35	Thru-hole	BPW-652-2BG035-70	SKT949
652	45X45	35X35	Surface Mount	BPW-652-2BG035B-30	SKT1351
652	45X45	35X35	Thru-hole	BPW-652-2BG035B-70	SKT1351
728	35X35	27X27	Surface Mount	BPW-728-2BG027-30	SKT1436
728	35X35	27X27	Thru-hole	BPW-728-2BG027-70	SKT1436
841	37.5X37.5	29X29	Surface Mount	BPW-841-2BG029-30	SKT1427
841	37.5X37.5	29X29	Thru-hole	BPW-841-2BG029-70	SKT1427
957	40X40	31X31	Surface Mount	BPW-957-2BG031-30	SKT1411
957	40X40	31X31	Thru-hole	BPW-957-2BG031-70	SKT1411
1444	40X40	38X38	Surface Mount	BPW-1444-2BG038-30	SKT1146
1444	40X40	38X38	Thru-hole	BPW-1444-2BG038-70	SKT1146

Call us (1-800-ADAPTER) or visit this link to request an immediate custom socket quotation:

Web Link: www.1800adapter.com/128

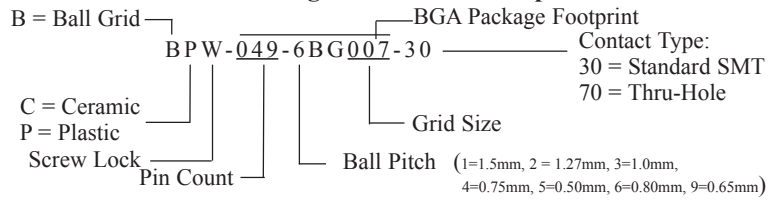
SOCKETS - BGA SMT & THRU-HOLE DEVELOPMENT UP TO 3 GHz

SCREW LOCK SOCKETS

For a complete list of socket specifications, pricing and delivery information, please see:

Web Link:
www.1800adapter.com/048

Ordering Information Example



1.27mm Ball Pitch (cont.)

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
560	42.5X42.5	33X33	Surface Mount	BPW-560-2BG033-30	SKT781
560	42.5X42.5	33X33	Thru-hole	BPW-560-2BG033-70	SKT781
564	40X40	30X30	Surface Mount	BPW-564-2BG030-30	SKT1562
564	40X40	30X30	Thru-hole	BPW-564-2BG030-70	SKT1562
576	40X40	30X30	Surface Mount	BPW-576-2BG030-30	SKT1030
576	40X40	30X30	Thru-hole	BPW-576-2BG030-70	SKT1030
596	40X40	30X30	Surface Mount	BPW-596-2BG030-30	SKT1199
596	40X40	30X30	Thru-hole	BPW-596-2BG030-70	SKT1199
600	45X45	35X35	Surface Mount	BPW-600-2BG035-30	SKT806
600	45X45	35X35	Thru-hole	BPW-600-2BG035-70	SKT806
600	45X45	35X35	Surface Mount	BPW-600-2BG035B-30	SKT1553
600	45X45	35X35	Thru-hole	BPW-600-2BG035B-70	SKT1553
652	45X45	35X35	Surface Mount	BPW-652-2BG035-30	SKT949
652	45X45	35X35	Thru-hole	BPW-652-2BG035-70	SKT949
652	45X45	35X35	Surface Mount	BPW-652-2BG035B-30	SKT1351
652	45X45	35X35	Thru-hole	BPW-652-2BG035B-70	SKT1351
728	35X35	27X27	Surface Mount	BPW-728-2BG027-30	SKT1436
728	35X35	27X27	Thru-hole	BPW-728-2BG027-70	SKT1436
841	37.5X37.5	29X29	Surface Mount	BPW-841-2BG029-30	SKT1427
841	37.5X37.5	29X29	Thru-hole	BPW-841-2BG029-70	SKT1427
957	40X40	31X31	Surface Mount	BPW-957-2BG031-30	SKT1411
957	40X40	31X31	Thru-hole	BPW-957-2BG031-70	SKT1411
1444	40X40	38X38	Surface Mount	BPW-1444-2BG038-30	SKT1146
1444	40X40	38X38	Thru-hole	BPW-1444-2BG038-70	SKT1146

1.00mm Ball Pitch

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
64	10X13	8X8	Surface Mount	BUW-064-3BG008-30	SKT1214
64	10X13	8X8	Thru Hole	BPW-064-3BG008-70	SKT1214
74	12X12	11X11	Surface Mount	BPW-074-3BG011-30	SKT1480
80	13X10	10X10	Surface Mount	BUW-080-3BG010-30	SKT1470
100	12X12	10X10	Surface Mount	BPW-100-3BG010-30	SKT1118
100	12X12	10X10	Thru Hole	BPW-100-3BG010-70	SKT1118
120	40X40	10X16	Thru Hole	BPW-120-3BG10X16-70	SKT1528
160	15X15	14X14	Surface Mount	BPW-160-3BG014-30	SKT1065
160	15X15	14X14	Thru Hole	BPW-160-3BG014-70	SKT1065
169	15X15	13X13	Raised SM	BPW-169-3BG013-29	SKT1454
196	15X15	14X14	Surface Mount	BPW-196-3BG014-30	SKT1347
196	15X15	14X14	Thru Hole	BPW-196-3BG014-70	SKT1347
208	17X17	16X16	Surface Mount	BPW-208-3BG016-30	SKT993
208	17X17	16X16	Thru Hole	BPW-208-3BG016-70	SKT993
256	17X17	16X16	Surface Mount	BPW-256-3BG016-30	SKT844
256	17X17	16X16	Thru Hole	BPW-256-3BG016-70	SKT844
289	19X19	17X17	Surface Mount	BPW-289-3BG017-30	SKT1153
289	19X19	17X17	Thru Hole	BPW-289-3BG017-70	SKT1153
321	19X19	18X18	Surface Mount	BPW-321-3BG018-30	SKT1456
324	19X19	18X18	Raised SM	BUW-324-3BG018-29	SKT1457
324	19X19	18X18	Surface Mount	BUW-324-3BG018-30	SKT1457
324	23X23	22X22	Surface Mount	BPW-324-3BG022-30	SKT1180
324	23X23	22X22	Thru Hole	BPW-324-3BG022-70	SKT1180
352	27X27	26X26	Surface Mount	BPW-352-3BG026-30	SKT1194
352	27X27	26X26	Thru Hole	BPW-352-3BG026-70	SKT1194
372	27X27	26X26	Surface Mount	BPW-388-3BG026-30	SKT1165
372	35X35	34X34	Surface Mount	BPW-372-3BG034-30	SKT1342
372	35X35	34X34	Thru Hole	BPW-372-3BG034-70	SKT1342
388	27X27	26X26	Thru Hole	BPW-388-3BG026-70	SKT1165
416	31X31	30X30	Surface Mount	BPW-416-3BG030-30	SKT1197
416	31X31	30X30	Thru Hole	BPW-416-3BG030-70	SKT1197
456	23X23	22X22	Surface Mount	BPW-456-3BG022-30	SKT1724
456	23X23	22X22	Thru Hole	BPW-456-3BG022-70	SKT1724

1.00mm Ball Pitch (cont.)

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
456	27X27	26X26	Surface Mount	BPW-456-3BG026-30	SKT1616
456	27X27	26X26	Surface Mount	BPW-456-3BG026-30H	SKT1621
456	27X27	26X26	Thru Hole	BPW-456-3BG026-70	SKT1616
480	35X35	34X34	Surface Mount	BPW-480-3BG034-30	SKT848
480	35X35	34X34	Thru Hole	BPW-480-3BG034-70	SKT848
484	23X23	22X22	Surface Mount	BPW-484-3BG022-30	SKT1128
484	23X23	22X22	Thru Hole	BPW-484-3BG022-70	SKT1128
484	27X27	26X26	Surface Mount	BPW-484-3BG026-30	SKT1124
484	27X27	26X26	Thru Hole	BPW-484-3BG026-70	SKT1124
603	31X31	30X30	Thru Hole	BPW-603-3BG030-70	SKT1600
648	35X35	33X33	Surface Mount	BPW-648-3BG033-30	SKT1293
648	35X35	33X33	Thru Hole	BPW-648-3BG033-70	SKT1293
672	27X27	26X26	Surface Mount	BPW-672-3BG026-30	SKT1129
672	27X27	26X26	Thru Hole	BPW-672-3BG026-70	SKT1129
676	27X27	26X26	Surface Mount	BPW-676-3BG026-30	SKT1201
676	27X27	26X26	Thru Hole	BPW-676-3BG026-70	SKT1201
680	35X35	34X34	Surface Mount	BPW-680-3BG034-30	SKT1723
680	35X35	34X34	Thru Hole	BPW-680-3BG034-70	SKT1723
680	40X40	39X39	Surface Mount	BPW-680-3BG039-30	SKT1426
696	40X40	38X38	Surface Mount	BPW-696-3BG038-30	SKT1420
788	35X35	34X34	Surface Mount	BPW-788-3BG034-30	SKT1498
788	35X35	34X34	Thru Hole	BPW-788-3BG034-70	SKT1498
792	14X14	39X39	Thru Hole	BPW-792-3BG039-70	SKT1200
792	40X40	39X39	Surface Mount	BPW-792-3BG039-30	SKT1200
896	31X31	30X30	Surface Mount	BPW-896-3BG030-30	SKT1601
896	31X31	30X30	Thru Hole	BPW-896-3BG030-70	SKT1601
900	31X31	30X30	Surface Mount	BPW-900-3BG030-30	SKT1561
900	31X31	30X30	Thru Hole	BPW-900-3BG030-70	SKT1561
956	40X40	38X38	Surface Mount	BPW-956-3BG038-30	SKT1379
1020	33X33	32X32	Surface Mount	BPW-1020-3BG032-30	SKT1223
1020	33X33	32X32	Thru Hole	BPW-1020-3BG032-70	SKT1223
1152	35X35	34X34	Surface Mount	BPW-1152-3BG034-30	SKT1312
1152	35X35	34X34	Thru Hole	BPW-1152-3BG034-70	SKT1312
1156	35X35	34X34	Surface Mount	BPW-1156-3BG034-30	SKT1218
1156	35X35	34X34	Thru Hole	BPW-1156-3BG034-70	SKT1218
1517	40X40	39X39	Surface Mount	BPW-1517-3BG039-30	SKT1313
1517	40X40	39X39	Thru Hole	BPW-1517-3BG039-70	SKT1313

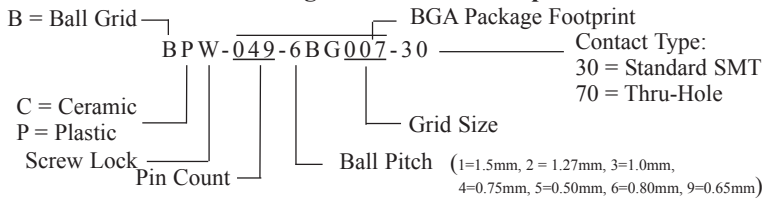
0.80mm Ball Pitch

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
49	7X7	7X7	Surface Mount	BPW-049-6BG007-30	SKT1154
49	7X7	7X7	Thru Hole	BPW-049-6BG007-70	SKT1154
63	11X12	8X12	Surface Mount	BUW-063-6BG8X12-30	SKT1729
64	8X8	8X8	Thru Hole	BPW-064-6BG008-YY	SKT1746
74	8X8	9X9	Surface Mount	BPW-074-6BG009-30	SKT1150
74	8X8	9X9	Thru Hole	BPW-074-6BG009-70	SKT1150
81	8X8	9X9	Thru Hole	BPW-081-6BG009-30	SKT1258
81	8X8	9X9	Surface Mount	BPW-081-6BG009-70	SKT1258
100	10.1X10.1	10X10	Surface Mount	BPW-100-6BG010-30	SKT1126
100	10.1X10.1	10X10	Thru Hole	BPW-100-6BG010-70	SKT1126
100	11X11	10X10	Surface Mount	BPW-100-6BG011-30	SKT1271
100	11X11	11X11	Thru Hole	BPW-100-6BG011-70	SKT1271
100	13.54X13.54	12X12	Surface Mount	BPW-100-6BG012-30	SKT1187
100	13.54X13.54	12X12	Thru Hole	BPW-100-6BG012-70	SKT1187
121	10X10	11X11	Surface Mount	BPW-121-6BG011-30	SKT1277
121	10X10	11X11	Thru Hole	BPW-121-6BG011-70	SKT1277
132	15X15	14X14	Surface Mount	BPW-132-6BG014-30	SKT1349
132	15X15	14X14	Surface Mount	BPW-132-6BG014-30-3	SKT1366
132	15X15	14X14	Thru Hole	BPW-132-6BG014-70	SKT1349
144	11X11	12X12	Surface Mount	BPW-144-6BG012-30	SKT1181

NOTE: Manufacturer's chip package drawing required with each order.

BGA SMT & THRU-HOLE DEVELOPMENT UP TO 3 GHz - SOCKETS

Ordering Information Example



SCREW LOCK SOCKETS

For a complete list of socket specifications, pricing and delivery information, please see:

Web Link:
www.1800adapter.com/048

0.80mm Ball Pitch (cont.)

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
144	12X12	13X13	Surface Mount	BPW-144-6BG013-30	SKT990
144	12X12	13X13	Thru Hole	BPW-144-6BG013-70	SKT990
144	13X13	13X13	Thru Hole	BPW-144-6BG013B-70	SKT1311
160	12X12	14X14	Thru Hole	BPW-160-6BG014-70	SKT1311
168	12.1X12.1	14X14	Surface Mount	BPW-168-6BG014-30	SKT1278
168	12.1X12.1	14X14	Thru Hole	BPW-168-6BG014-70	SKT1278
168	14X14	12X12	Thru Hole	BUW-168-6BG014-YY	SKT1747
180	12X12	14X14	Surface Mount	BPW-180-6BG014-30	SKT1386
180	12X12	14X14	Thru Hole	BPW-180-6BG014-70	SKT1386
192	16X16	16X16	Surface Mount	BPW-192-6BG016-30	SKT1279
192	16X16	16X16	Thru Hole	BPW-192-6BG016-70	SKT1279
196	12X12	14X14	Surface Mount	BPW-196-6BG014-30	SKT991
196	12X12	14X14	Thru Hole	BPW-196-6BG014-70	SKT991
208	15X15	17X17	Surface Mount	BPW-208-6BG017-30	SKT995
208	15X15	17X17	Thru Hole	BPW-208-6BG017-70	SKT995
228	12X12	22X22	Thru Hole	BPW-228-5BG022-YY	SKT1760
249	16X16	17X17	Surface Mount	BPW-249-6BG017-30	SKT1272
249	16X16	17X17	Thru Hole	BPW-249-6BG017-70	SKT1272
256	15X15	17X17	Surface Mount	BPW-256-6BG017-30	SKT1511
256	15X15	17X17	Thru Hole	BPW-256-6BG017-70	SKT1511
257	16X16	19X19	Surface Mount	BPW-257-6BG019-30	SKT1560
280	16X16	19X19	Surface Mount	BPW-280-6BG019-30	SKT1280
280	16X16	19X19	Thru Hole	BPW-280-6BG019-70	SKT1280

0.75mm Ball Pitch

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
46	7.00X7.30	6X8	Thru Hole	BUW-046-4BG6X8-YY	SKT1761

0.50mm Ball Pitch

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
144		13X13	Surface Mount	BPW-144-8BG013B-30	SKT1713

0.40mm Ball Pitch

Pin Count	Chip Size (mm)	Grid Size	Socket Style	ET Part #	Drawing #
96	6x6	14X14	Surface Mount	BPW-096-5BG014-30	SKT1713

NOTE: Manufacturer's chip package drawing required with each order.

EMULATION TECHNOLOGY RECOMMENDS:



ET's ultra-modern, high tech design torque limiting screwdriver ensures correct tightening of retention frames used with our BGA Screw Lock Sockets, BGA Socket Emulator Adapter and Bluetooth 104 001 Socket & Adapter Systems. (Part # ET-TORQ-7CN)

- Safely tighten retention socket frames
- Safeguard expensive devices
- Screwdriver preset to 0.7 oz. in.

For pricing and delivery information see:

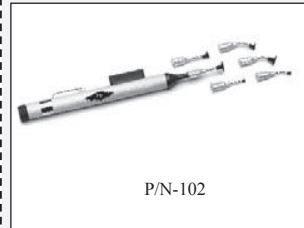
Web Link: www.1800adapter.com/118

EMULATION TECHNOLOGY RECOMMENDS:

Safely handle your fine-pitch devices with a product from Emulation Technology's Vacuum handling systems.

Vacuum Pens

ET's vacuum pens are hand-held, manually operated handling tools that allow you to lift and move fine pitch devices.



- Easily lift ICs without damaging device
- Eliminates need to touch fragile packages
- Built-in vacuum
- All pens come with tips

These ESD-safe units feature a silver aluminum body and non-marking static dissipative black rubber vacuum cups. The pens' vacuum is generated by pressing and releasing the vacuum push button.

For a complete list of vacuum specifications, pricing and delivery information, please see:

Web Link: www.1800adapter.com/086

EMULATION TECHNOLOGY RECOMMENDS:

Try our BGA Solder Stencils

Residue-free adhesive backing means these stencils are self-sticking ...so you can say goodbye to tape and fixturing forever!

Web Link: www.1800adapter.com/019

Try our SolderQuik™ BGA Preform

Allows for easy and inexpensive testing of new BGA package designs. Use it for testing, rework and prototyping BGA packages.

Web Link: www.1800adapter.com/043

For a complete list of BGA socket specifications, pricing and delivery information, please see:

Web Link: www.1800adapter.com/048