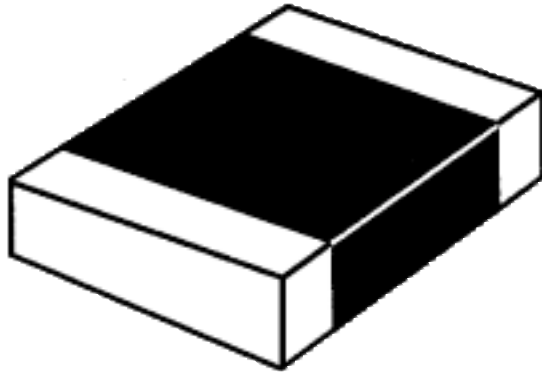


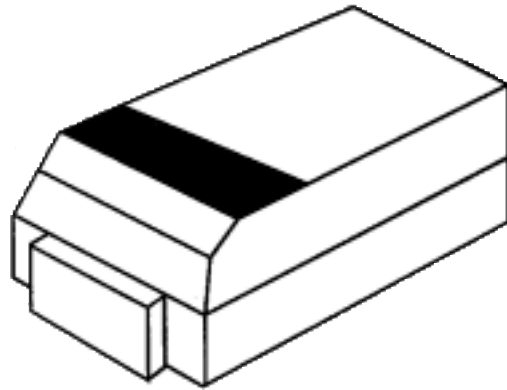
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CERAMIC CHIP CAPACITORS

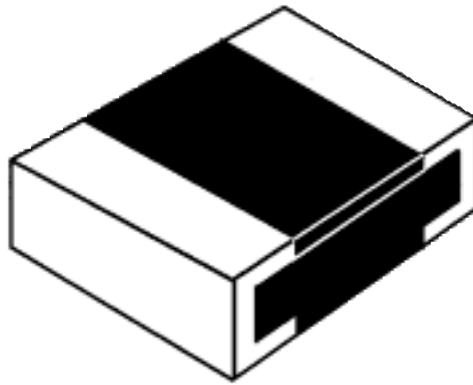
<u>Size (Inch)</u>	<u>Part Number Tape and Reel</u>	<u>Tape Width</u>	<u>Quantity Per 7" Reel</u>
0201	0201-C-TR7	8 mm	10,000
0402	0402-C-TR7	8 mm	10,000
0504	0504-C-TR7	8 mm	5,000
0603	0603-C-TR7	8 mm	4,000
0805	0805-C-TR7	8 mm	4,000
1206	1206-C-TR7	8 mm	3,000
1210	1210-C-TR7	8 mm	3,000
1805	1805-C-TR7	8 mm	1,000
1812	1812-C-TR7	8 mm	1,000
1825	1825-C-TR7	8 mm	1,000



TANTALUM CAPACITORS (MOLDED)

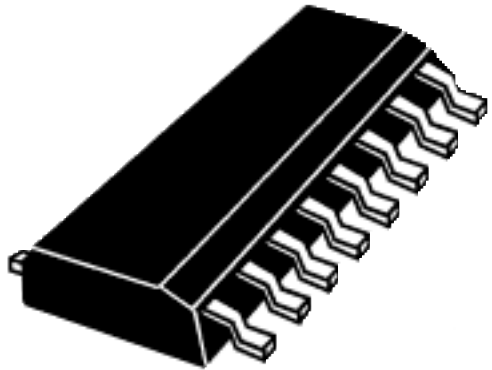
<u>Case Code</u>	<u>EIA Size (Metric)</u>	<u>Body Size (W x L)*</u>	<u>Tape Width</u>	<u>Quantity Per 7" Reel</u>
A	3216	3.2 x 1.6	8 mm	2,000
B	3528	3.5 x 2.8	8 mm	2,000
C	6032	6.0 x 3.2	12 mm	500
D	7343	7.3 x 4.3	12 mm	500

• Body size in millimeters



CHIP RESISTORS

<u>Size (Inch)</u>	<u>Part Number Tape and Reel</u>	<u>Tape Width</u>	<u>Quantity Per 7" Reel</u>
0201	0201-R-TR7	8 mm	10,000
0402	0402-R-TR7	8 mm	10,000
0603	0603-R-TR7	8 mm	5,000
0805	0805-R-TR7	8 mm	5,000
1206	1206-R-TR7	8 mm	5,000
1210	1210-R-TR7	8 mm	4,000
2010	2010-R-TR7	8 mm	4,000
2512	2512-R-TR7	8 mm	4,000



SOIC .150 wide (50 mil (1.27mm) pitch)

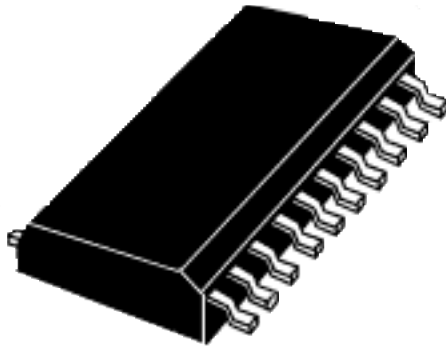
<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
8	SOIC 8-T1	.150 x .194	2500	97
14	SOIC 14-T1	.150 x .342	2500	55
16	SOIC 16-T1	.150 x .391	2500	48

SOLIC .300 wide (50 mil (1.27mm) pitch)

<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
16	SOLIC 16-T2	.300 x .407	1000	46
18	SOLIC 18-T2	.300 x .456	1000	41
20	SOLIC 20-T2	.300 x .505	1000	37
24	SOLIC 24-T2	.300 x .607	500	31
28	SOLIC 28-T2	.300 x .706	500	27
32	SOLIC 32-T2	.300 x .818	500	22

SOLIC .330 wide (50 mil (1.27mm) pitch)

<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
32	SOLIC 32-T3	.330 x .818	750	22



SOLIC .350 wide (50 mil (1.27mm) pitch)

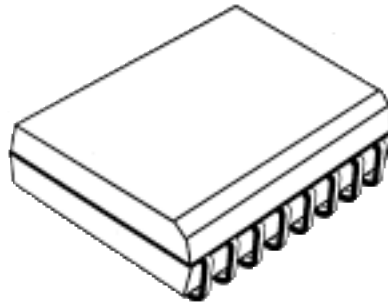
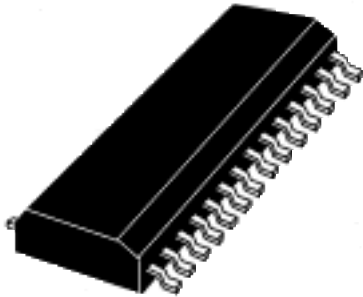
<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
28	SOLIC 28-T4	.350 x .818	500	26
32	SOLIC 32-T4	.350 x .818	500	22

SOLIC .400 wide (50 mil (1.27mm) pitch)

<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
28	SOLIC 28-T5	.400 x .726	500	26
32	SOLIC 32-T5	.400 x .826	500	22
40	SOLIC 40-T5	.400 x 1.026	500	18

SOLIC .450 wide (50 mil (1.27mm) pitch)

<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
32	SOLIC 32-T6	.450 x .825	500	22
40	SOLIC 40-T6	.450 x 1.026	500	18



SOLIC .525 wide (50 mil (1.27mm) pitch)

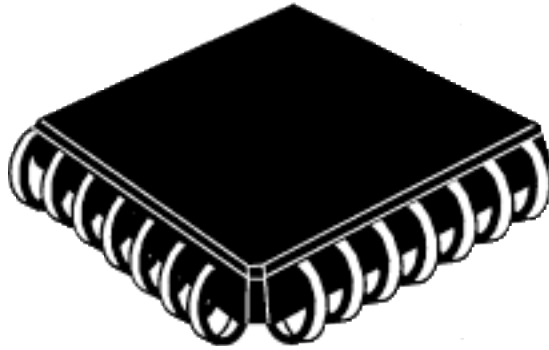
<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
44	SOLIC 44-T7	.525 x 1.110	500	17

SOJ .300 wide (50 mil (1.27mm) pitch)

<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
20/26	SOJ 20/26-T1	.300 x .675	1000	30
24	SOJ 24-T1	.300 x .607	1000	32
28	SOJ 28-T1	.300 x .706	1000	27
32	SOJ 32-T1	.300 x .818	750	22

SOJ .400 wide (50 mil (1.27mm) pitch)

<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
28	SOJ 28-T2	.400 x .726	1000	27
32	SOJ 32-T2	.400 x .826	750	22
36	SOJ 36-T2	.400 x .926	1000	22
40	SOJ 40-T2	.400 x 1.026	750	22



PLCC - Plastic Leaded Chip Carrier (J Lead)
(Standard 50 mil (1.27mm) pitch)

<u>Number Leads</u>	<u>Part Number</u>	<u>Body Size (W x L)</u>	<u>Quantity 13" Reel</u>	<u>Quantity Per Tube</u>
18	PLCC 18-T1	.290 x .490	1000	36
20	PLCC 20-T1	.352 x .352	1000	46
28	PLCC 28-T1	.452 x .452	750	37
32	PLCC 32-T1	.452 x .552	750	30
44	PLCC 44-T1	.652 x .652	500	26
52	PLCC 52-T1	.752 x .752	500	23
68	PLCC 68-T1	.952 X .952	250	18
84	PLCC 84-T1	1.152 x 1.152	250	15

Parts on 13" reels are available special order only



PBGA/BGA Packages - Plastic Ball Grid Array

<u>Number Balls</u>	<u>Part Number (Trays Only)</u>	<u>Body Size (mm)</u>	<u>Pitch</u>		<u>Tray Qty.</u>	<u>Row Array</u>
			<u>Mil</u>	<u>mm</u>		
119	BGA 119	14 x 22	50	1.27	96	F
121	BGA 121	15 x 15	50	1.27	126	F
144	BGA 144-DC	13 x 13	40	1.00	160	F
153	BGA 153	14 x 22	50	1.27	96	F
156	BGA 156	15 x 15	40	1.00	126	P4
160	BGA 160	15 x 15	40	1.00	126	P4
169	BGA 169	23 x 23	60	1.50	60	F
192	BGA 192	17 x 17	40	1.00	90	P4
196	BGA 196	15 x 15	40	1.00	126	F
208	BGA 208-TI	17 x 17	40	1.00	90	P4
208	BGA 208-T2	23 x 23	50	1.27	60	P4
208	BGA 208-T2-DC	23 x 23	50	1.27	60	P4
217	BGA 217	23 x 23	50	1.27	60	P
225	BGA 225	27 x 27	60	1.50	40	F
225	BGA 225-DC	27 x 27	60	1.50	40	F
256	BGA 256-T1	17 x 17	40	1.00	90	F
256	BGA 256-T2	27 x 27	50	1.27	40	P4
256	BGA 256-T2-DC	27 x 27	50	1.27	40	P4
272	BGA 272	27 x 27	50	1.27	40	P4
288	BGA 288	23 x 23	40	1.00	60	P4
300	BGA 300	27 x 27	50	1.27	40	P5
304	BGA 304	31 x 31	50	1.27	27	P4
313	BGA 313	35 x 35	50	1.27	24	F

PBGA/BGA Packages - Plastic Ball Grid Array Cont.

Number Balls	Part Number (Trays Only)	Body Size (mm)	Pitch		Tray Qty.	Row Array
			Mil	mm		
316	BGA 316	27 x 27	50	1.27	40	P5
324	BGA 324	23 x 23	40	1.00	60	P4
329	BGA 329	31 x 31	50	1.27	27	P4
336	BGA 336	27 x 27	50	1.27	40	P5
352	BGA 352	35 x 35	50	1.27	24	P4
352	BGA 352-DC	35 x 35	50	1.27	24	P4
388	BGA 388	35 x 35	50	1.27	24	P4
388	BGA 388-DC	35 x 35	50	1.27	24	P4
420	BGA 420	35 x 35	50	1.27	24	P5
456	BGA 456	35 x 35	50	1.27	24	P5
516	BGA 516	31 x 31	40	1.00	27	P4
524	BGA 524	37.5 x 37.5	50	1.27	21	P5
580	BGA 580	35 x 35	40	1.00	24	P4
900	BGA 900	40 x 40	50	1.27	21	F

*F-Full Array P-Perimeter 4 rows

CABGA® Packages - Chip Array Ball Grid Array

Number Balls	Part Number (Trays Only)	Body Size (mm)	Pitch		Package Height	Row Array
			Mil	mm		
36	CABGA 36	6 x 6	31	0.8	1.40mm	F
40	CABGA 40	5 x 5	20	0.5	1.24mm	P2
46	CABGA 46	6 x 7	31	0.75	1.20mm	F
48	CABGA 48	6 x 7	31	0.75	1.20mm	F
49	CABGA 49	7 x 7	31	0.8	1.40mm	F
56	CABGA 56	6 x 6	20	0.5	1.24mm	P2
64	CABGA 64-T1	8 x 8	31	0.8	1.40mm	F
64	CABGA 64-T2	9 x 9	40	1.00	1.40mm	F
81	CABGA 81-T1	9 x 9	31	0.8	1.40mm	F
81	CABGA 81-T2	10 x 10	40	1.00	1.40mm	F
84	CABGA 84	7 x 7	20	0.5	1.24mm	P3
100	CABGA 100-T1	10 x 10	31	0.8	1.40mm	F
100	CABGA 100-T2	11 x 11	40	1.00	1.40mm	F
108	CABGA 108	8 x 8	20	0.5	1.24mm	P3
121	CABGA 121	12 x 12	40	1.00	1.40mm	F
128	CABGA 128	11 x 11	31	0.8	1.40mm	P4
144	CABGA 144-T1	12 x 12	31	0.8	1.40mm	P4
144	CABGA 144-T2	13 x 13	40	1.00	1.40mm	F
160	CABGA 160	12 x 12	31	0.8	1.40mm	P4
176	CABGA 176	13 x 13	31	0.8	1.40mm	P4
192	CABGA 192	14 x 14	31	0.8	1.40mm	P4
208	CABGA 208	15 x 15	31	0.8	1.40mm	P4

TABGA Packages - Tape Array Ball Grid Array

Number Balls	Part Number (Trays Only)	Body Size (mm)	Pitch		Ball Matrix	Row Array
			Mil	mm		
46	TABGA 46	7.9 x 6.5	30	0.75	8 x 6	F
48	TABGA 48-T1	5 x 5	20	0.50	8 x 8	P2
48	TABGA 48-T2	7 x 8	30	0.75	6 x 8	F
49	TABGA 49	6 x 6	20	0.50	7 x 7	F
56	TABGA 56	6 x 6	20	0.50	10 x 10	P2
64	TABGA 64-T1	5 x 5	20	0.50	8 x 8	F
64	TABGA 64-T2	6 x 6	20	0.50	10 x 10	P2
64	TABGA 64-T3	8 x 8	31	0.80	8 x 8	F
80	TABGA 80	7 x 7	20	0.50	12 x 12	P2
84	TABGA 84	6 x 6	20	0.50	10 x 10	P3
100	TABGA 100	9 x 9	20	0.50	10 x 10	F
112	TABGA 112-T1	7 x 7	20	0.50	12 x 12	P3
112	TABGA 112-T2	10 x 10	31	0.80	11 x 11	P4
132	TABGA 132-T1	8 x 8	20	0.50	14 x 14	P3
132	TABGA 132-T2	12 x 12	31	0.80	14 x 14	P3
144	TABGA 144-T1	10 x 10	31	0.80	12 x 12	F
144	TABGA 144-T2	12 x 12	31	0.80	13 x 13	P4
180	TABGA 180	12 x 12	31	0.80	14 x 14	P5



uBGA® Packages - Micro Ball Grid Array

<u>Number Balls</u>	<u>Part Number (Trays Only)</u>	<u>Body Size (mm)</u>	<u>Pitch</u>		<u>Tray Qty.</u>	<u>Row Array</u>
			<u>Mil</u>	<u>mm</u>		
46	Micro BGA 46	5.76 x 7.87	30	.75	36	F

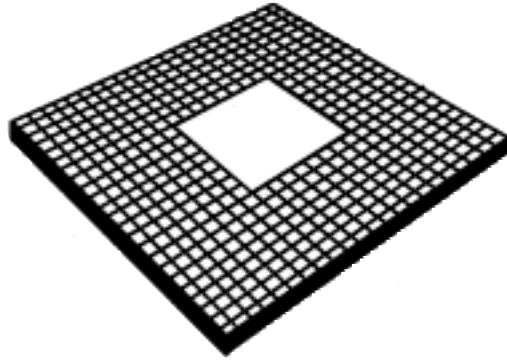
uBGA® is a registered trademark of TESSERA®



SBGA Packages - Super Ball Grid Array

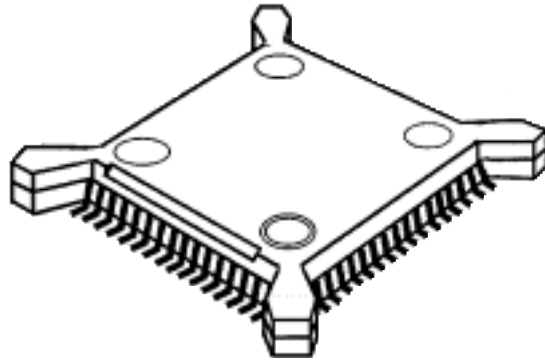
<u>Number Balls</u>	<u>Part Number (Trays Only)</u>	<u>Body Size (mm)</u>	<u>Pitch</u>		<u>Tray Qty.</u>	<u>Row Array</u>
			<u>Mil</u>	<u>mm</u>		
168	SBGA 168	23 x 23	50	1.27	60	P3
204	SBGA 204	27 x 27	50	1.27	40	P3
256	SBGA 256	27 x 27	50	1.27	40	P4
304	SBGA 304	31 x 31	50	1.27	24	P4
432	SBGA 432	40 x 40	50	1.27	21	P4
560	SBGA 560-DC	42.5 x 42.5	50	1.27	12	P5
600	SBGA 600	45 x 45	50	1.27	12	P5

SBGA® is a registered trademark of Amkor/Anam



CBGA Packages - Ceramic Ball Grid Array

<u>Number Balls</u>	<u>Part Number (Trays Only)</u>	<u>Body Size (mm)</u>	<u>Pitch</u>		<u>Row Array</u>
			<u>Mil</u>	<u>mm</u>	
256	CBGA 256	21.0 x 21.0	50	1.27	F
304	CBGA 304	21.0 x 25.0	50	1.27	F
361	CBGA 361	25.0 x 25.0	50	1.27	F
475	CBGA 475	25.0 x 32.5	50	1.27	F
625	CBGA 625	32.5 x 32.5	50	1.27	F



BQFP Packages - Bumpered Quad Flat Pack
(JEDEC Style)

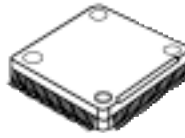
<u>Number</u> <u>Leads</u>	<u>Part Number</u> <u>(Trays Only)</u>	<u>Body Size</u> <u>(mm)</u>	<u>Pitch</u>		<u>Tray</u> <u>Qty</u>
			<u>Mil</u>	<u>mm</u>	
84	BQFP 84-T25	20 x 20	25	0.64	60
100	BQFP 100-T25	23 x 23	25	0.64	55
132	BQFP 132-T25	28 x 28	25	0.64	36

Body Size is Bumper to Bumper



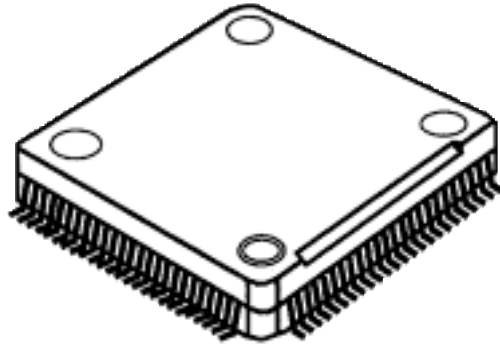
QFP Packages - Plastic Quad Flat Pack

<u>Number Leads</u>	<u>Part Number (Trays Only)</u>	<u>Body Size (mm)</u>	<u>Pitch</u>		<u>Tray Qty</u>
			<u>Mil</u>	<u>mm</u>	
44	QFP 44-T30	10 x 10	31.5	0.8	96
52	QFP 52-T25	10 x 10	25.7	0.65	96
64	QFP 64-T30	14 x 14	31.5	0.8	90
64	QFP 64-T40	14 x 20	40.0	1.0	66
80	QFP 80-T25	14 x 14	25.7	0.65	90
80	QFP 80-T30	14 x 20	31.5	0.8	66
100	QFP 100-T20	14 x 14	19.7	0.5	90
100	QFP 100-T25	14 x 20	25.7	0.65	66
120	QFP 120-T30	28 x 28	31.7	0.8	24
128	QFP 128-T30	28 x 28	31.7	0.8	24
144	QFP 144-T25	28 x 28	25.7	0.65	24
160	QFP 160-T25	28 x 28	25.7	0.65	24
184	QFP 184-T20	28 x 28	19.7	0.5	24
184	QFP 184-T25	32 x 32	25.7	0.65	18
208	QFP 208-T20	28 x 28	19.7	0.5	24
240	QFP 240-T20	32 x 32	19.7	0.5	18
256	QFP 256-T15	28 x 28	15.7	0.4	24
304	QFP 304-T20	40 x 40	19.7	0.5	12



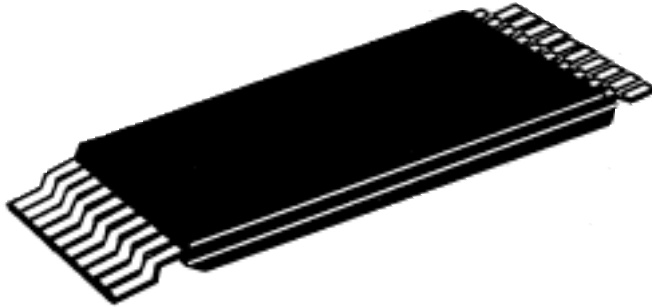
LQFP Packages - Low Profile Quad Flat Pack
(1.4mm Thick)

Number Leads	Part Number (Trays Only)	Body Size mm	Pitch		Tray Qty.
			Mil	mm	
32	LQFP 32-T30	7 x 7	31.5	0.8	250
44	LQFP 44-T30	10 x 10	31.5	0.8	160
44	LQFP 44-T40	14 x 14	40.0	1.0	90
48	LQFP 48-T20	7 x 7	19.7	0.5	250
52	LQFP 52-T25	10 x 10	25.7	0.65	160
64	LQFP 64-T20	10 x 10	19.7	0.5	160
64	LQFP 64-T30	14 x 14	31.5	0.8	90
80	LQFP 80-T25	14 x 14	25.7	0.65	90
100	LQFP 100-T20	14 x 14	19.7	0.5	90
100	LQFP 100-T25	14 x 20	25.7	0.65	72
120	LQFP 120-T15	14 x 14	15.7	0.4	90
128	LQFP 128-T15	14 x 14	15.7	0.4	90
128	LQFP 128-T20-1	14 x 20	19.7	0.5	72
128	LQFP 128-T20-2	20 x 20	19.7	0.5	60
144	LQFP 144-T20	20 x 20	19.7	0.5	60
160	LQFP 160-T20	24 x 24	19.7	0.5	40
168	LQFP 168-T12	14 x 14	11.8	0.3	60
176	LQFP 176-T20	24 x 24	19.7	0.5	40
208	LQFP 208-T20	28 x 28	19.7	0.5	36



TQFP Packages - Thin Quad Flat Pack
(1.0mm Thick)

<u>Number</u> <u>Leads</u>	<u>Part Number</u> <u>(Trays Only)</u>	<u>Body Size</u> <u>(mm)</u>	<u>Pitch</u>		<u>Tray</u> <u>Qty</u>
			<u>Mil</u>	<u>mm</u>	
32	TQFP 32-T30	7 x 7	31.5	0.8	250
44	TQFP 44-T30	10 x 10	31.5	0.8	160
48	TQFP 48-T20	7 x 7	19.7	0.5	250
64	TQFP 64-T20	10 x 10	19.7	0.5	160
64	TQFP 64-T30	14 x 14	31.5	0.8	90
80	TQFP 80-T25	14 x 14	25.7	0.65	90
100	TQFP 100-T20	14 x 14	19.7	0.5	90
120	TQFP 120-T15	14 x 14	15.7	0.4	90
128	TQFP 128-T15	14 x 14	15.7	0.4	90
128	TQFP 128-T20-2	20 x 20	19.7	0.5	60
144	TQFP 144-T20	20 x 20	19.7	0.5	60
176	TQFP 176-T20	24 x 24	19.7	0.5	40



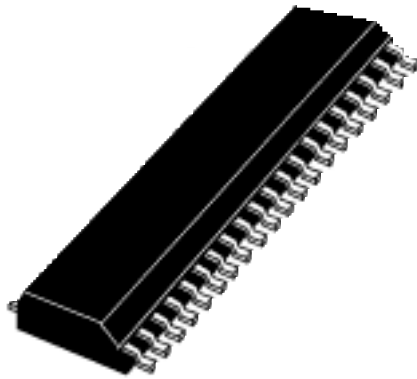
TSOP Type I Packages - Thin Small Outline Package

Number Leads	Part Number (Trays Only)	Body Size (mm)	Pitch		Tray Qty
			Mil	mm	
28	TSOP 28-T1	8 x 18.4	21.5	0.55	156
32	TSOP 32-T1	8 x 18.4	19.7	0.5	156
40	TSOP 40-T1	10 x 18.4	19.7	0.5	120
48	TSOP 48-T1	12 x 18.4	19.7	0.5	96



TSOP Type II Packages - Thin Small Outline Packages

<u>Number Leads</u>	<u>Part Number (Trays Only)</u>	<u>Body Size (mm)</u>	<u>Lead Pitch</u>	<u>Quantity Per Tray</u>
24/28	TSOP 24/28-T2	10.16 x 18.42	1.27mm	135
32	TSOP 32-T2	10.16 x 20.95	1.27mm	117
40/44	TSOP 4/44-T2	10.16 x 18.42	0.80mm	135
44	TSOP 44-T2	10.16 x 18.42	0.80mm	135
54	TSOP 54-T2	10.16 x 22.20	0.80mm	108

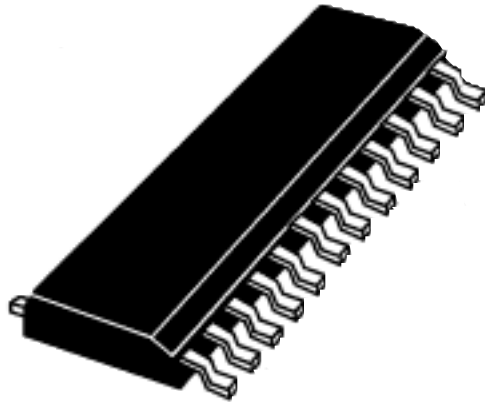


SSOP Packages - Shrink Small Outline Package
3.9mm Wide (.150")

<u>Number Leads</u>	<u>Part Number (Tube Only)</u>	<u>Body Size (mm)</u>	<u>Lead Pitch</u>	<u>Quantity Per Tube</u>
8	SSOP 8-T1	3.0 x 3.9	0.63mm	160
14	SSOP 14-T1	4.9 x 3.9	0.63mm	97
16	SSOP 16-T1	4.9 x 3.9	0.63mm	97
20	SSOP 20-T1	5.7 x 3.9	0.63mm	55
24	SSOP 24-T1	8.7 x 3.9	0.63mm	55
28	SSOP 28-T1	9.9 x 3.9	0.63mm	48

SSOP Packages - Shrink Small Outline Package
5.3mm Wide (.209")

<u>Number Leads</u>	<u>Part Number (Tube Only)</u>	<u>Body Size (mm)</u>	<u>Lead Pitch</u>	<u>Quantity Per Tube</u>
16	SSOP 16-T2	6.2 x 5.3	.65mm	77
20	SSOP 20-T2	7.2 x 5.3	.65mm	66
24	SSOP 24-T2	8.2 x 5.3	.65mm	59
28	SSOP 28-T2	10.2 x 5.3	.65mm	47

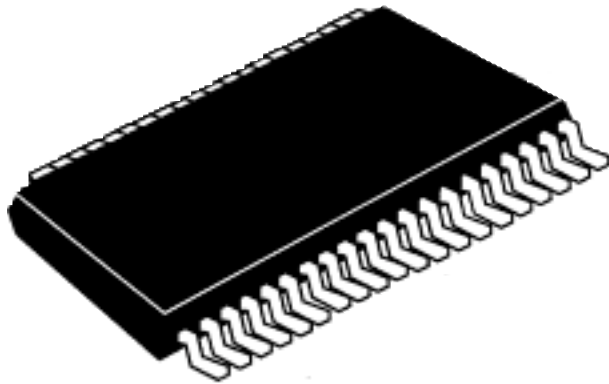


SSOP Packages - Shrink Small Outline Package
7.5mm Wide (.300")

<u>Number Leads</u>	<u>Part Number (Tube Only)</u>	<u>Body Size (mm)</u>	<u>Lead Pitch</u>	<u>Quantity Per Tube</u>
34	SSOP 34-T3	17.9 x 7.5	1.01mm	27
36	SSOP 36-T3	15.4 x 7.5	.80mm	31
44	SSOP 44-T3	17.9 x 7.5	.80mm	27
48	SSOP 48-T3	15.9 x 7.5	.63mm	30
56	SSOP 56-T3	18.4 x 7.5	.63mm	25

SSOP Packages - Shrink Small Outline Package
10.16mm Wide (.400")

<u>Number Leads</u>	<u>Part Number (Tube Only)</u>	<u>Body Size (mm)</u>	<u>Lead Pitch</u>	<u>Quantity Per Tube</u>
64	SSOP 64-T4	26.12 x 10.16	.80mm	12

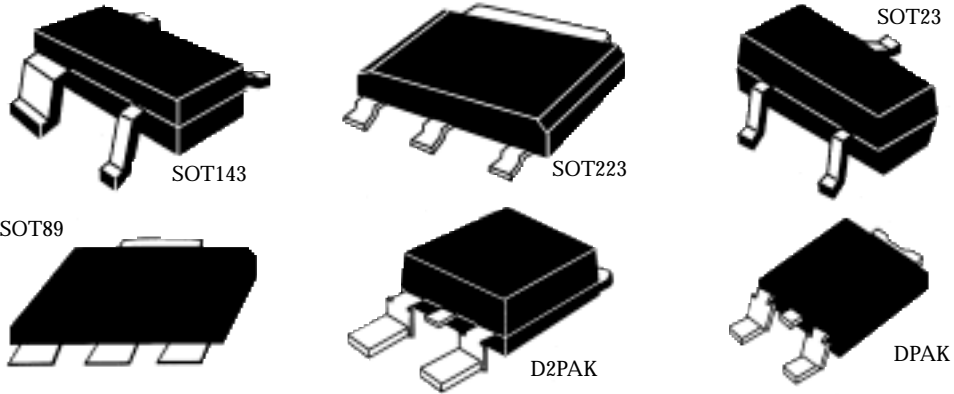


TSSOP Packages - Thin Shrink Small Outline Package
4.4mm Wide (.173")

<u>Number Leads</u>	<u>Part Number (Tube Only)</u>	<u>Body Size (mm)</u>	<u>Lead Pitch</u>	<u>Quantity Per Tube</u>
8	TSSOP 8-T1	3.0 x 4.4	0.65mm	97
14	TSSOP 14-T1	5.0 x 4.4	0.65mm	96
16	TSSOP 16-T1	5.0 x 4.4	0.65mm	96
20	TSSOP 20-T1	6.5 x 4.4	0.65mm	74
24	TSSOP 24-T1	7.8 x 4.4	0.65mm	62
28	TSSOP 28-T1	9.7 x 4.4	0.65mm	50
30	TSSOP 30-T1	7.8 x 4.4	0.50mm	62
38	TSSOP 38-T1	9.7 x 4.4	0.50mm	50
44	TSSOP 44-T1	11.3 x 4.4	0.50mm	39
48	TSSOP 48-T1	9.7 x 4.4	0.40mm	50
56	TSSOP 56-T1	11.3 x 4.4	0.40mm	39

TSSOP Packages - Thin Shrink Small Outline Package
6.1mm Wide (.240")

<u>Number Leads</u>	<u>Part Number (Tube Only)</u>	<u>Body Size (mm)</u>	<u>Lead Pitch</u>	<u>Quantity Per Tube</u>
28	TSSOP 28-T2	9.7 x 6.1	0.65mm	50
48	TSSOP 48-T2	12.5 x 6.1	0.50mm	39
56	TSSOP 56-T2	14.0 x 6.1	0.50mm	35
80	TSSOP 80-T2	17.0 x 6.1	0.40mm	28

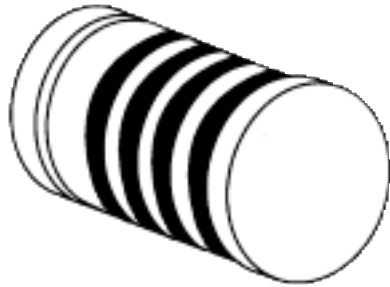


SOT Packages (Surface Mount Transistors)

<u>Number Leads</u>	<u>Part Number (Tape and Reel)</u>	<u>Body Size (L x W) (mm)</u>	<u>Tape Width</u>	<u>Quantity Per 7" Reel</u>
3	SOT 23-TR	3.0 x 1.3	8mm	3000
4	SOT 89-TR	4.6 x 2.5	12mm	1000
4	SOT 143-TR	3.0 x 1.3	8mm	3000
4	SOT 223-TR	6.7 x 3.7	12mm	1000
3	SOT 323-TR	1.8 x 0.9	8mm	3000
3	SC 90-TR	1.5 x 0.8	8mm	3000

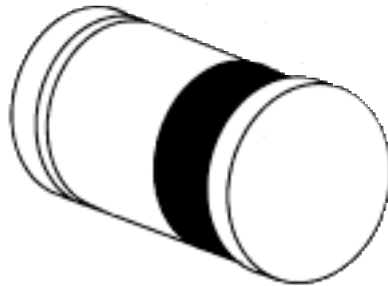
D PAK Packages (Surface Mount Transistors)

<u>Number Leads</u>	<u>Part Number (Tape and Reel)</u>	<u>Body Size (L x W) (mm)</u>	<u>Tape Width</u>	<u>Quantity Per 7" Reel</u>
3	D PAK-TR	6.6 x 5.8	16mm	1800
3	D ² PAK	15 x 10	24mm	800



MELF RESISTORS (Cylindrical)
(Metal Electrode Face)

<u>Size</u>	<u>Part Number</u> <u>Tape and Reel</u>	<u>Body Size</u> <u>L x W mm)Tape and Reel</u>	<u>Tape</u> <u>Width</u>	<u>Quantity</u> <u>Per 7" Reel</u>
0805	0805 M-TR7	2.0 x 1.3	8mm	3000
1206	1206 M-TR7	3.4 x 1.4	8mm	3000
1406	1406 M-TR7	3.6 x 1.4	8mm	3000
2308	2308 M-TR7	5.9 x 2.2	12mm	1500



MELF DIODE

<u>Size</u>	<u>Part Number</u> <u>Tape and Reel</u>	<u>Body Size</u> <u>L x W mm)</u>	<u>Tape</u> <u>Width</u>	<u>Quantity</u> <u>Per 7" Reel</u>
1206	SOD 80-TR7	3.4 x 1.4	8mm	2500
2308	LL41-TR7	5.0 x 2.5	12mm	1000

THROUGH HOLE PARTS AVAILABLE

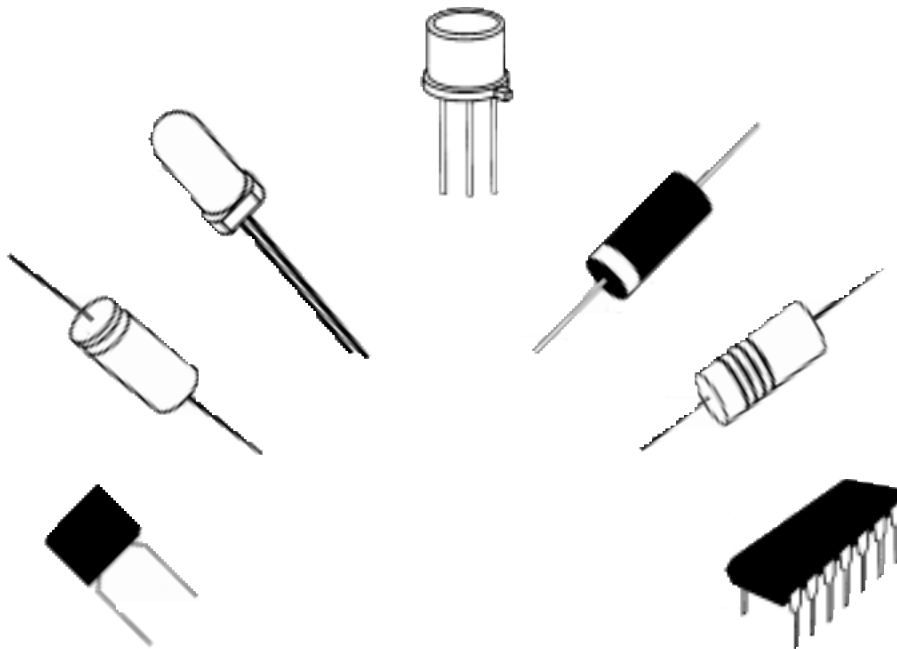
CARBON COMPOSITION RESISTORS

TOMBSTONE CAPACITORS

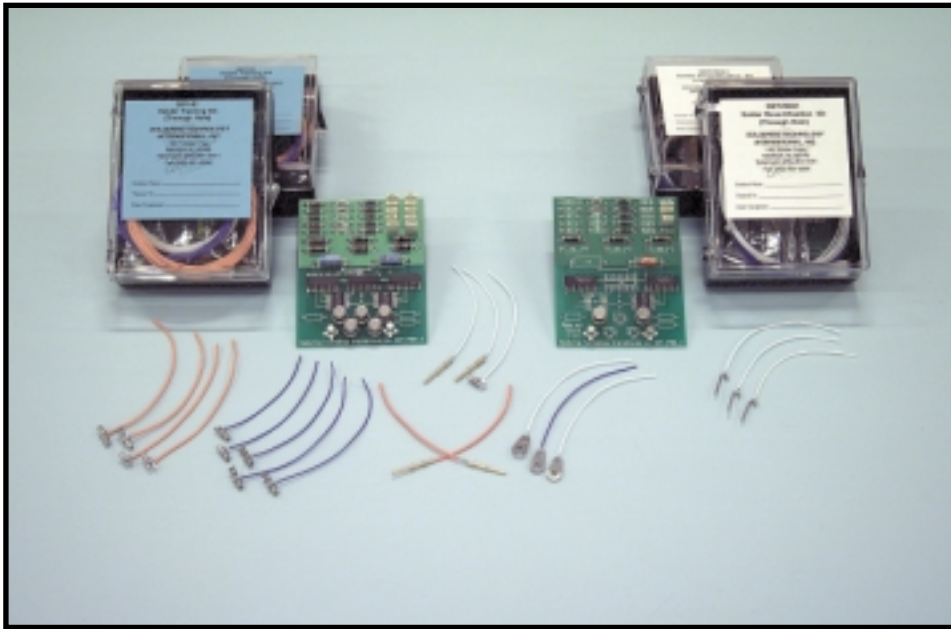
ELECTROLYTIC CAPACITORS

DIP PACKAGES

TRANSISTORS



Through Hole Solder Kits

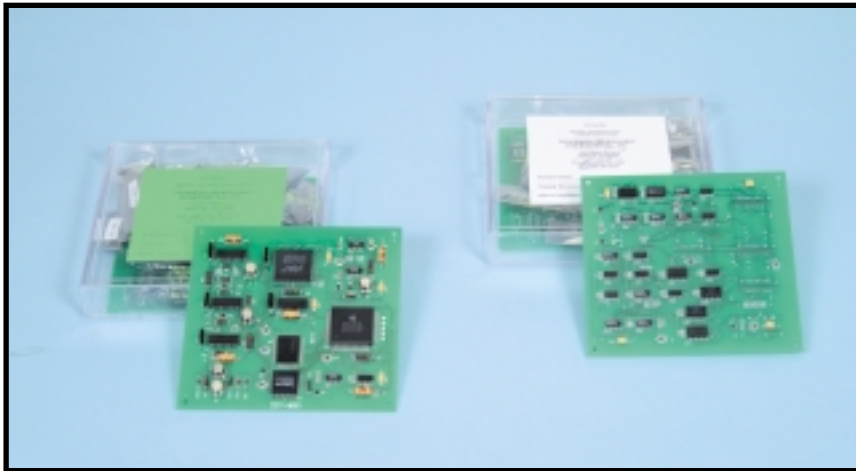


Parts List

Through-Hole Kits	SST-K1 Training Kit	SST-RK01 Recertification Kit
PWB (SST-PWB3)	2	1
Bifurcated Terminals	15	5
Gold Solder Cups	15	5
Hook Terminals	15	5
Pierced Terminals	15	5
Turret Terminals	15	5
Diodes	10	2
Electrolytic Capacitors	4	1
Capacitors with Standoffs	20	6
1/4 Watt Resistors	20	5
1/2 Watt Resistors	12	3
16 Pin DIP's	6	2
Transistors with Standoffs	14	4
16 Pin SOLIC's	4	1
20 AWG Wire	10 ft.	0
22 AWG Wire	10 ft.	5 ft.
26 AWG Wire	10 ft.	5 ft.

Rev. 01/01 Contents subject to change

Mixed Technology Solder Training Kits



Parts List

Mixed Technology Kit	SST-MTK1 Training Kit	SST-MTK2 Combination Kit
PWB (SST-MIX1C)	1	1
<i>Through Hole Components</i>		
1/4 Watt Resistors	10	10
1/2 Watt Resistors	5	5
Diodes	5	5
16 Pin DIP's	4	4
Capacitors with Standoffs	5	5
Transistors with Standoffs	5	5
Electrolytic Capacitors	5	5
<i>Surface Mount Components</i>		
0805 Resistors	6	12
1206 Capacitors	6	27
6032 Tantalum Capacitors	4	8
16 SOIC	4	12
1206 Melf Diode (SOD 80)	6	12
SOT 23	4	8
PLCC 44	1	1
PLCC 68	1	1
QFP 64-T30	1	1
QFP 120-T25	1	1
SOLIC 20 (Bottom)	0	8
SOIC 14 (Bottom)	0	6

Rev. 01/01 Contents subject to change

Surface Mount Training Kits

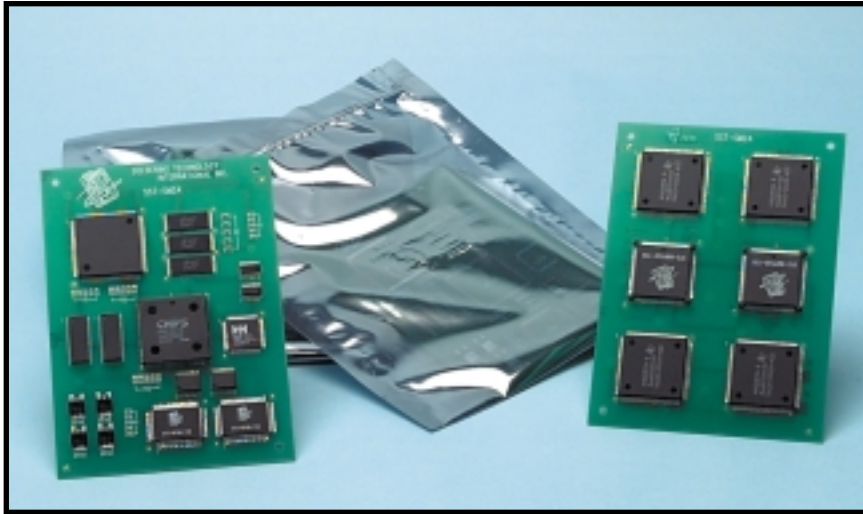


Parts List

Basic SMT Kit	SST-SMTK2 Training Kit	SST-SMTK3 208 Kit	SST-SMTK4 Combination Kit
PWB (SST-SM1E)	1	1	1
PLCC 44	1	0	1
PLCC 68	1	1	1
PLCC 84	1	1	1
14 SOIC	2	2	4
16 SOIC	2	0	2
16 SOLIC	4	0	4
20 SOLIC	2	0	2
24 Lead Cer Pack	1	1	2
SOT 23	2	2	4
SOT 89	5	0	5
0805 Capacitors	10	10	20
1206 Capacitors	10	10	20
1210 Resistors	10	10	20
6032 Tantalum Capacitors	4	4	8
1206 MELF	6	6	12
2308 MELF	6	0	6
100 QFP 14 x 20mm	1	0	1
120 QFP 28 x 28mm	1	0	1
160 QFP 28 x 28mm	0	1	1
208 QFP 28 x 28mm	0	2	2

Rev 03/01 Contents Subject to Change

Advanced Surface Mount Training Kits

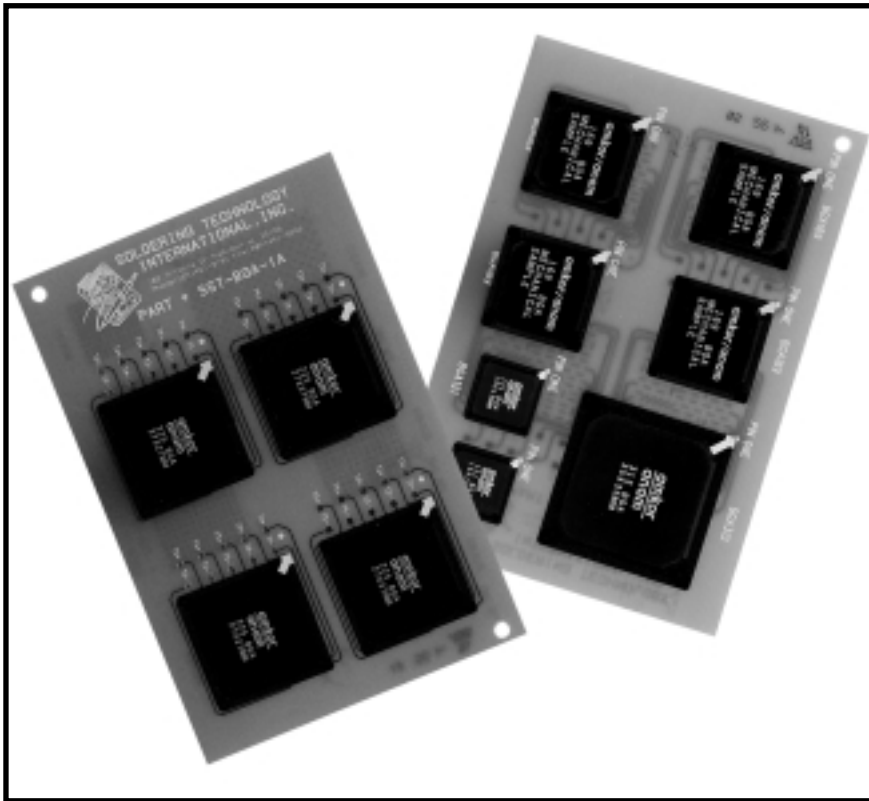


Parts List

Advanced SMT Kit	SST-SMTK5 Training Kit	SST-SMTK6 208 Kit	SST-SMTK7 Combination Kit
PWB (SST-SM2A)	1	1	1
0402 Resistors	15	0	15
0805 Resistors	15	0	15
TSOP 32 (Type 1)	3	0	3
QFP256-T15	1	0	1
QFP80-T30	2	0	2
QFP208-T20	0	4	4
LQFP80-T25	1	0	1
BQFP132-T25	0	2	0
32 SOJ	2	0	2
14 SOIC	2	0	2
16 SOLIC	2	0	2
84 PLCC	1	0	1
D PAK	4	0	4

Rev 01/01 Contents Subject to Change

Ball Grid Array Training Kits

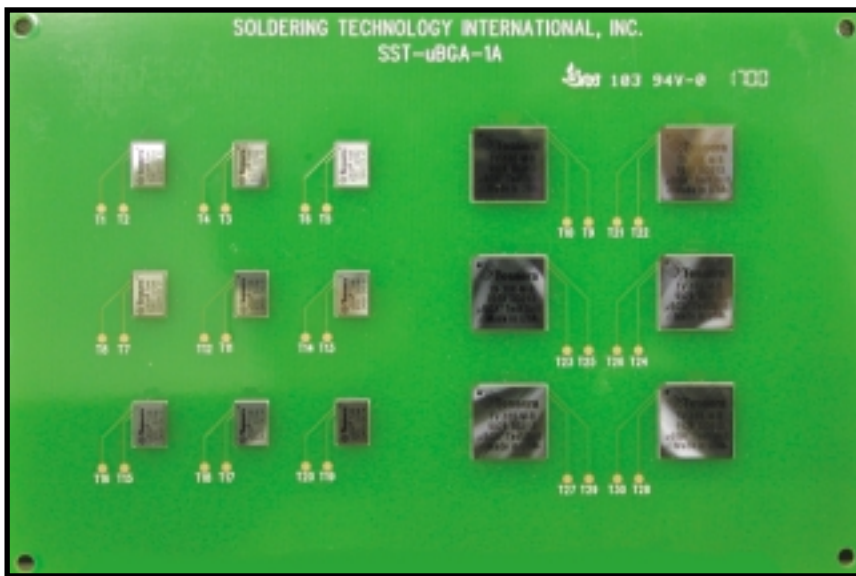


Parts List

Basic BGA Kit	SST-BGA-K1 Front Side Kit	SST-BGA-K2 Back Side Kit	SST-BGA-K3 Combination Kit
PWB (SST-BGA-1A)	1	1	1
BGA 225-DC (Daisy Chained)	4	0	4
BGA 121	0	2	2
BGA 169	0	4	4
BGA 313	0	1	1

Rev 01/01 Contents Subject to Change

uBGA/CABGA TRAINING KIT



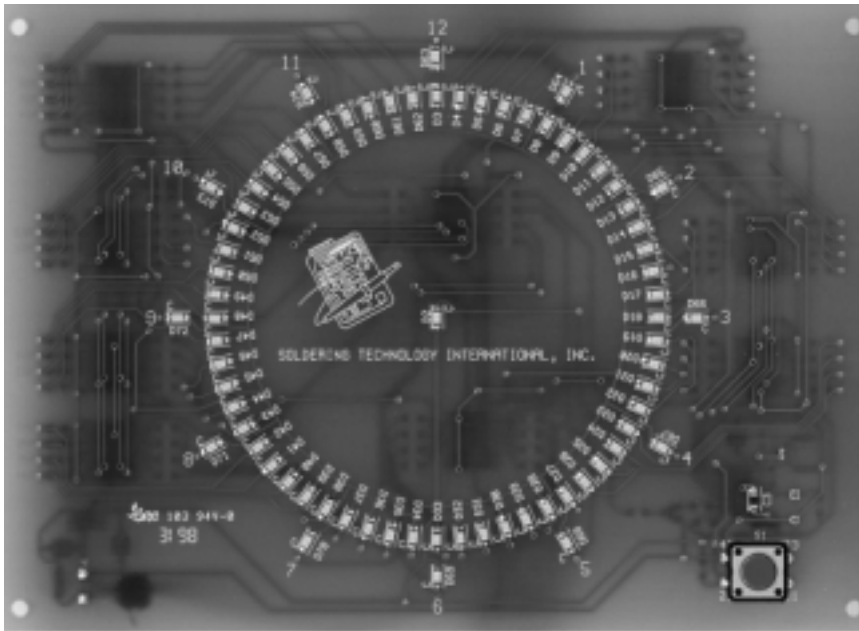
Parts List

Basic BGA Kit	SST-uBGA-K1 Training Kit
PWB (SST-uBGA-1B)	1
uBGA 46-0.75-DC	9
CABGA 208-0.8	6

Rev 03/01 Contents Subject to Change

Clock Training Kits

Active Kit for Training and Display



Parts List

Clock Training Kit	SST-CLK-KIT Training Kit
1206 Capacitors	12
1206 Diodes	74
1206 Resistors	80
SOIC 8	1
SOLIC 16	1
SOLIC 20	9
SOT 23	1
Electrolytic Capacitors	3
Radial Crystal	1
Through Hole Switch	1

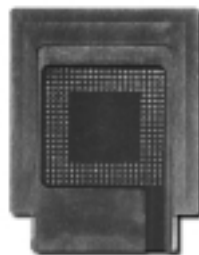
BGA Reballer

Soldering Technology International, Inc.

We know how frustrating it is to remove a component knowing that it is still good, but not being able to use it again! That's why Soldering Technology International developed a unique and simple device called the **BGA REBALLER**. The reballing system allows you to remove the existing spheres from the component and re-establish the spheres on the Ball Grid Array. Therefore, you are able to reuse your components.....**SAVING YOU MONEY!**

HERE ARE THE SIMPLE STEPS YOU TAKE IN ORDER TO REBALL YOUR COMPONENT:

1. Using your soldering iron, remove the excess solder.
2. Apply the flux.
3. Insert the component into the Reballer fixture.
4. Pour in the spheres.
5. Drain off all excess spheres.
6. Reflow the fixture using the established profile.



The **REBALLER** is so simple to use and very cost effective! Unlike other devices for reballing, the BGA Reballer fits into the palm of your hand. For only £595 you will receive the Reballer fixture, 10,000 spheres of the correct size, flux, tweezers, and a tool to seat the spheres. Each Reballer is designed for your BGA package size and style. The Reballer is also available for chip scale and flash memory devices.

Benz Ltd
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