

# ACTIVE PARTS LOCATED ON "STENCIL/NEST-OL"

Updated February 20,2006

Package Name	Package Outline Dimension (mm)	Package Outline Dim (in)	Type of Pattern	No of Col x Rows	Comp Ball Dia	Ball Pitch	Stencil Hole Dia	Stencil t-ness	Number of holes	Nest Inside Dimension (OD + .025)	Nest, Stencil Part Number	Stencil Part Number	Assy No. (sten/nest)	Pro-Nozzle Part Number	Component Nest Part Number
micro BGA9	3	0.1180	3 ROWS, 3 COL, 1 SQ	3X3	0.020	0.0394	0.0197	0.007	9	0.1290	9025-3806-00	9025-3805-00			
FQFP	4	0.1575	4 Sides w/ 6 rectangular pads								9025-3668-00				
OC 48 BGA	4	0.1575	area, no ctr ball	5 x 5	0.019	0.0310	0.0160	0.006	24	0.1825	1-14-40841	1-14-40840	1-91-30850		
16 lead hittite counter	4	0.1575	rectangular pads, 4 sides	4x4x4x4			.009 x .0152	0.004				9025-3834-00			
DFN 8	4 x 4.5	.1574 x .1771	2 sided 4 pads/side				0.0188	0.0149	8 + ctr			9025-3837-00			
SOIC 8	5	0.1969								0.206	9025-3636-00				
	4.9 x 6	.1929 x .2362	2 sided 4 pads/side	2			.0137 x .0157	0.004	8			9025-3835-00			
1MSC625B CBGA	6.35	0.2500	Odd Layout	n/a	0.020		0.0185	0.007	25	0.2750	1-14-40739	1-14-40738	1-91-30838		
TV46	6 x 8	.2362 x .3150	rectangular, w/o 2 balls	6 x 8	0.0128	0.0295	0.0114	0.005	46		1-14-40524	1-14-40523	1-91-30737		
FBGA 48	6 x 8	.2362 x .3150	rectangular, full array	6 x 8	0.0177	0.0315	0.0153	0.005	48		1-14-40524	9025-3497-00			
PBGA 98	6 x 9	.2362 x .3543	rectangular, full array minus 6 balls	8 x 13	0.0118	0.0260	0.0153	0.005	98	.246x.364	9025-3555-00	9025-3719-00			
	6 X 12	.2362 X .4724								.260 x .496	9025-3436-00				
micro BGA48	6.15 x 8.15	.2421 x .3208	rectangular, full array	6 x 8	0.01535	0.0315	0.0131	0.005	48	.252 x .331	9025-3736-00	9025-3737-00			
	7	0.2756	RECANGULAR PADS	8 PERIMETER			.012X.016	0.005	32			9025-3773-00			
BGA48	7	0.2756	rectangular	6 x 8	0.0118	0.0295	0.0110	0.004	48	0.2856	1-14-40767	9025-3177-00			
MLF-48-4	7	0.2756	square	1 x 11 (4x)			0.0197	.010 x .016	48			097-086-00			
bga 144p	7	0.2756	perimeter, with out center	13 x 13 (5x5 ctr)	0.0118	0.0197	0.0100	0.004	144	0.2856	1-14-40767	9025-3738-00			
QFN-48	7.15mm square	.291496 max	4-sided , leads	4 perim, 12 pads/side	.008 x .017	0.0197	.0060 x .0170	0.004	48	0.2856	1-14-40767	1-14-40766	1-91-30839	8mm Mini	
FBC048	8 x 9	.3150 x .3543	rectangular	6 x 8	0.0118	0.0315	0.0110	0.005	48	0.380 x 0.340	9025-2949-00	9025-2932-00			
micro BGA90	8 x 13	.315 x .512	rectangular w/ 3 CTR COL MISSING	6 x 15	0.0165	0.0315	0.0140	0.005	90	.325 x .522	9025-3690-00	9025-3691-00			
FBGA 100	9 sq	0.3543	full array	10 x 10	0.0196	0.0315	0.0160	0.006	100	0.364	9025-3687-00	9025-3688-00			
TSOP 75	9.5 x 22.5	.374 x .886	rectangular	5 x 15	0.03	0.0500	0.0250	0.008	75	.384 x .896	097-018-00	097-017-00			
BGA100	10	0.3937	Square	10 x 10	0.018	0.0310	0.0153	0.005	100	0.4187	9025-2951-00	9025-2933-00			
BGA121	10	0.3937	Square	11 x 11	0.0138	0.0315	0.0115	0.005	121	0.4040	9025-2951-00	9025-3732-00			
BGA 84 Special	10x12.5	.3937x.5021	rectangular, w/ spec pattern	6x15	0.01811	0.0315	0.0153	0.005	84	.404x.502	9025-3604-00	9025-3603-00			
BGA 64	10 x 13	.3937 x .5118	square	8 x 8	0.0169	0.0394	0.0146	0.006	64	.406 x .522	9025-3589-00	9025-3743-00			
SON-40 (LCC-40P-MO2)	10.1 x 10.76	.3976 x .4236	rectangular, w/ rec pads	2 x 20	.013 x .020	0.0250	.0100 x .0180	0.005	40	.406 x .427	1-14-40729-734	1-14-40735-737	1-91-30840		
FBGA168	11	0.4331	Square w/one corner missing	13 x 13	0.021	0.0310	0.0180	0.006	168	0.4581	9025-2970-00	9025-2969-00			
micro BGA63	11 x 12	.4331 x .4724	rectangular, w/ spec pattern	8 x 12	0.0118	0.0315	0.0120	0.005	63	.444 x .484	9025-3696-00	9025-3697-00			
FBGA 64	11X13	.4331X.5118	SQUARE	8X8	0.0236	0.0394	0.0196	0.007	64	.446X.518	9025-3948-00	9025-3947-00			
FBGA 64	11.3 X 13.8	.445 X .543	Area w/ scattered holes missing	8 x 15	0.0177	0.0310	0.0150	0.005	64	.456 x .556	9025-3672-00	9025-3671-00			
FBGA 84	11.3 X 13.8	.445 X .543	Area w/ scattered holes missing	8 x 15	0.0177	0.0310	0.0150	0.005	84	.456 x .556	9025-3672-00	9025-3678-00			
FBGA144	12	0.4724	Square	12 x 12	0.018	0.0310	0.0153	0.005	144	0.4974	9025-3205-00	9025-3206-00			
TSOP 48	12 x 20	.472 x .7874	2 sided rectangular pads	24 , 2 sides			0.0196	.0078 x .0224	48	.49 x .798	9025-3940-00	9025-3941-00			
TSOP-66	12 x 22		rectangular	2 x 33			0.0256	.008 x .012	66	.472 x .880	097-084-00	097-085-00			
FBGA255	13	0.5118	Square w/one corner missing	16 x16	0.021	0.0310	0.0180	0.006	255	0.5220	9025-2965-00	9025-2964-00		1-91-30298	1-14-36259
FPBGA176	13	0.5118	perimeter, with out center	15 x15	0.018	0.0310	0.0153	0.005	176	0.5220	9025-2965-00	1-14-40981			
FPBGA165	13X15	.512X.591	AREA	11X15	0.02125	0.0394	0.0181	0.007	165	.522X.602	9025-3746-00	9025-3745-00			
BGA 368	14	0.5511	perimeter , w/19x19 missing ctr	27 x 27	0.11811	0.0197	0.0100	0.004	368	0.562	9025-3740-00	9025-3739-00			
PBGA 119	14 x 22	.5511 x .8661	full rectangular w/ corners	7 x 17	0.029	0.0500	0.0250	0.008	119	.576 x .891	1-14-40723	1-14-40724	1-91-30836	1-91-30264	1-14-30255
FBGA323	15	0.5906	Square w/one corner missing	18 x 18	0.021	0.0310	0.0180	0.006	323	0.6156	9025-2978-00	9025-2963-00		1-91-30223	1-14-36033
S-PBGA-N208	15	0.5906	Square w/o center	17 x17	0.02	0.0310	0.0180	0.006	208	0.6156	9025-2978-00	9025-3066-00		1-91-30223	1-14-36033
LBGA324	15	0.5906		18 X 18	0.02	0.0310	0.0150	0.006	324	0.6156	9025-2978-00	097-043-00		1-91-30223	1-14-36033
BGA196	15	.5906 X .5906	SQUARE	14 X 14	0.019	0.0390	0.0160	0.006	196	.700 X .700	9025-3251-00	9025-3250-00		1-91-30223	1-14-36033
PBGA 197 rectangular	15.25 x 25.25	.600 x .994	area, one missing corner	11 x 18	0.032	0.0500	0.0270	0.008	197	.625 x 1.019	1-14-36382	1-14-40934	1-91-30932	1-91-30233	1-14-36004
S-PBGA-N257	16	0.6299	Concentric Squares w/o ctr	19 x 19	0.019	0.0310	0.0160	0.006	257	0.6549	9025-3173-00	9025-3174-00		1-91-30224	1-14-36034
ZP- 86(Motorola)	16.26 x 17.78	.700 x .640	full rectangular w/o corners	10 x 9	0.029	0.0600	0.0250	0.008	86	.725 x .665	1-14-40710	1-14-40711	1-91-30757		
SO 044	16 x 28.2	.6299 x 1.110	2 sided 22 rectangular pads/ side	2 x 22		0.0500	0.0141 x .0283	0.006	44		9025-3945-00	9025-3944-00			
FG256	17	0.6693	Square	16 x 16	0.0236	0.0390	0.0200	0.008	256	0.6943	9025-2948-00	9025-3742-00		1-91-30225	1-14-36035
BGA208	17	0.6693	Square w/open track	16 x 16	0.019	0.0390	0.0160	0.006	208	0.6943	9025-2948-00	9025-2958-00		1-91-30225	1-14-36035
Spec Quad 144	17	0.6693	Square	12 x 12	0.029	0.0500	0.0250	0.008	144	0.6943	9025-2948-00	9025-3433-00		1-91-30225	1-14-36035
280	17	0.6693	perimeter , w/o ctr	19 x 19	0.0167	0.0395	0.0141	0.005	280	0.693	9025-2948-00	9025-3695-00			
256	17	0.6693	sq	20x20	0.19	0.0315	0.0160	0.006	256	0.693	9025-2948-00	9025-3641-00		1-91-30225	1-14-36035
FT 256	17	0.6693	sq	16 x 16	0.0196	0.0394	0.0160	0.006	256	0.693	9025-2948-00	9025-3839-00			
PBGA 384	18	0.7087	perimeter (6 x 6), w/o ctr	22 x 22	0.019	0.0310	0.0160	0.006	384	0.7337	1-14-36381	1-14-40931	1-91-30929	1-91-30226	1-14-36036
FBGA 304	19	0.7480	Concentric Rectangles w/o ctr	22 x 22	0.019	0.0310	0.0160	0.006	304	0.7730	9025-2950-00	9025-2931-00		1-91-30227	1-14-36037
240	19	0.7480	Perimeter, 22x22 w/0 ctr	22 x 22	0.019	0.0315	0.0160	0.006	240	0.7730	9025-2950-00	9025-3640-00		1-91-30227	1-14-36037
BGA 255	21	0.8268	area,square, offset, one missing	16 x 16	0.0235	0.0500	0.0200	0.007	255	0.8518	1-14-40597	1-14-40596	1-91-30742	1-91-30229	1-14-36039
CI-CGA (columns)	21	0.8268	area,square, offset, one missing	16 x 16	0.035	0.0500	0.0320	0.008	255	0.8518	1-14-40597	1-14-40684	1-91-30754	1-91-30229	1-14-36039
BGA 256	21	0.8268	4X4 PERIMETER	20 x 20	0.0196	0.3937	0.0166	0.007	256	0.8518	1-14-40597	9025-3744-00			