

Table 14-5: Land Approximation (mm) for Collapsible Solder Balls

Nominal Ball Diameter	Reduction	Land Pattern Density Level	Nominal Land Diameter	Land Variation
0.75	25%	A	0.55	0.60 - 0.50
0.65	25%	A	0.50	0.55 - 0.45
0.60	25%	A	0.45	0.50 - 0.40
0.55	25%	A	0.40	0.45 - 0.35
0.50	20%	B	0.40	0.45 - 0.35
0.45	20%	B	0.35	0.40 - 0.30
0.40	20%	B	0.30	0.35 - 0.25
0.35	20%	B	0.30	0.35 - 0.25
0.30	20%	B	0.25	0.25 - 0.20
0.25	20%	B	0.20	0.20 - 0.17
0.20	15%	C	0.17	0.20 - 0.14
0.17	15%	C	0.15	0.18 - 0.12
0.15	15%	C	0.13	0.15 - 0.10

Note: The IPC-7351A LP Calculator Uses this chart for calculations