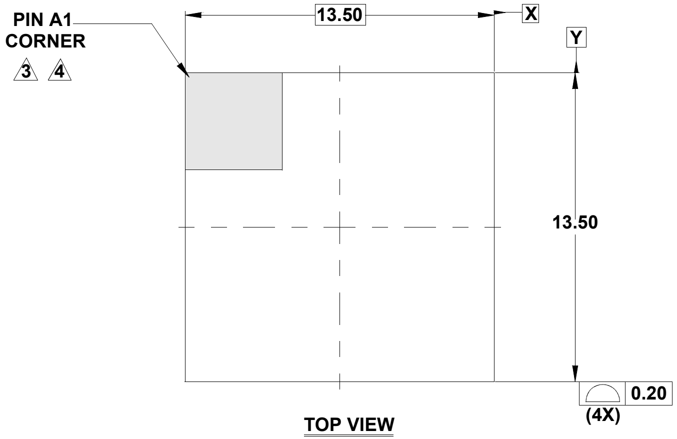
# Package Outline Drawing

## V256.13.5x13.5

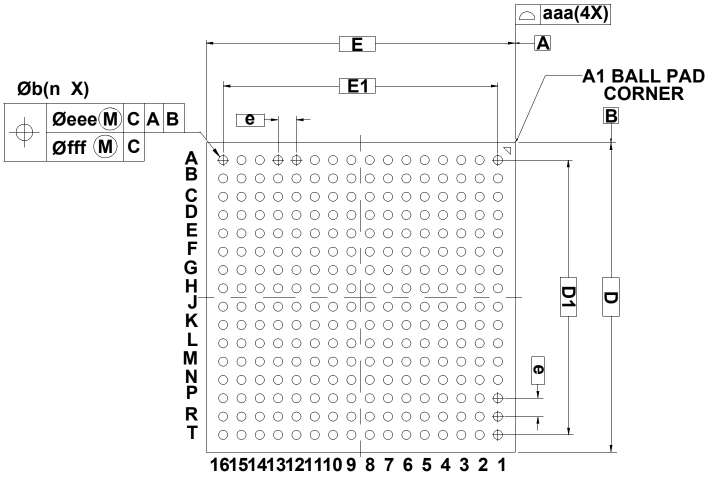
**256 LOW PROFILE, FINE PITCH PLASTIC BALL GRID ARRAY PACKAGE (LFBGA)**

**Rev 0, 3/13**

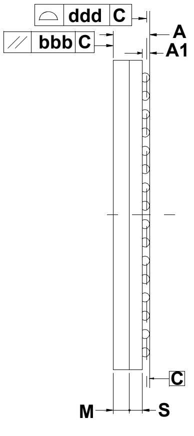


TOP VIEW

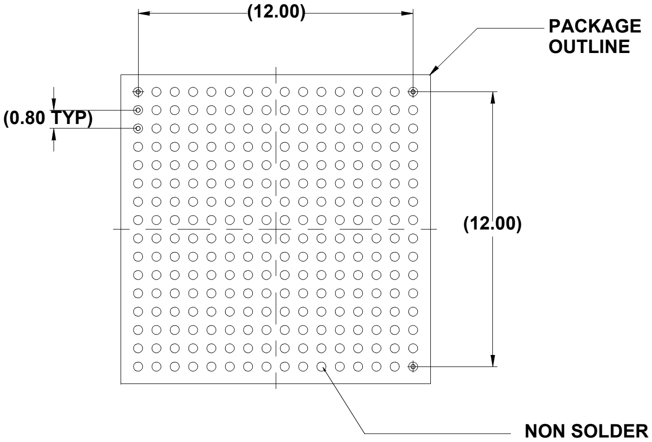
| | | SYMBOL | COMMON DIMENSIONS | | |
|---|---|---|---|---|---|
| | | | MIN | NOM | MAX |
| Package | | | LFBGA | | |
| Body Size | X | E | 13.50 | | |
| | Y | D | 13.50 | | |
| Ball Pitch | | e | 0.800 | | |
| Total Thickness | | A | - | - | 1.700 |
| Mold Thickness | | M | 0.700 Ref. | | |
| Substrate Thickness | | S | 0.560 Ref. | | |
| Ball Diameter | | | 0.400 | | |
| Stand Off | | A1 | 0.270 | - | 0.370 |
| Ball Width | | b | 0.380 | - | 0.480 |
| Package Edge Tolerance | | aaa | 0.150 | | |
| Mold Parallelism | | bbb | 0.200 | | |
| Coplanarity | | ddd | 0.120 | | |
| Ball Offset (Package) | | eee | 0.150 | | |
| Ball Offset (Ball) | | fff | 0.080 | | |
| Ball Count | | n | 256 | | |
| Edge Ball Center to Center | X | E1 | 12.000 | | |
| | Y | D1 | 12.000 | | |



BOTTOM VIEW



SIDE VIEW



TYPICAL RECOMMENDED LAND PATTERN