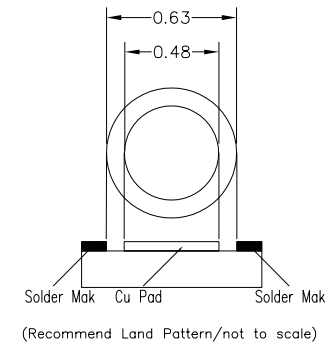
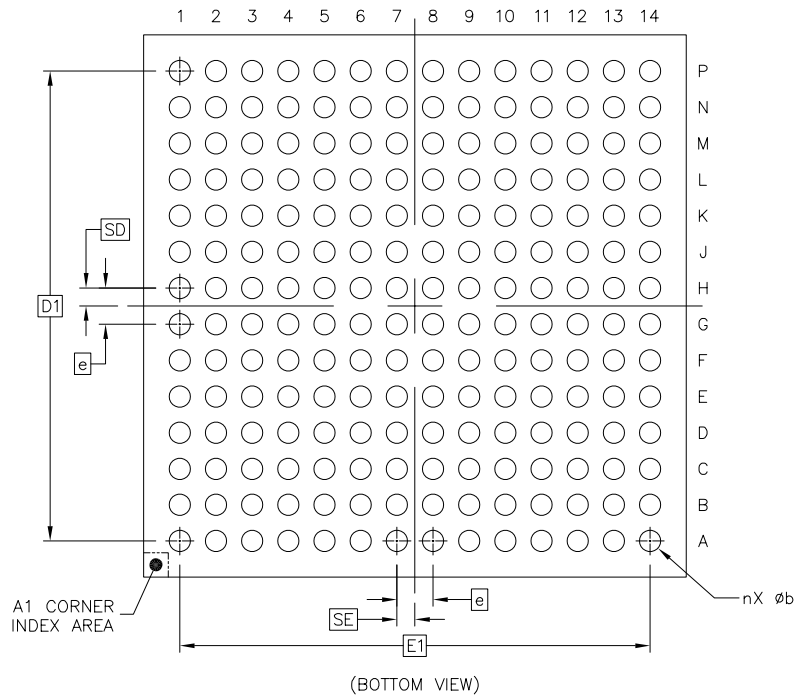


| | SYMBOL | COMMON DIMENSIONS | | |
|-----------------------------|--------|-------------------|------|------|
| | | MIN. | NOR. | MAX. |
| TOTAL THICKNESS | A | --- | --- | 2.94 |
| STAND OFF | A1 | 0.4 | --- | 0.6 |
| SUBSTRATE THICKNESS | A2 | 0.76 | | REF |
| HEAT SLUG THICKNESS | A3 | 1.35 | | REF |
| BODY SIZE | D | 15 | | BSC |
| | E | 15 | | BSC |
| BALL DIAMETER | | 0.6 | | |
| BALL OPENING | | 0.48 | | |
| BALL WIDTH | b | 0.5 | --- | 0.7 |
| BALL PITCH | e | 1 | | BSC |
| BALL COUNT | n | 196 | | |
| EDGE BALL CENTER TO CENTER | D1 | 13 | | BSC |
| | E1 | 13 | | BSC |
| BODY CENTER TO CONTACT BALL | SD | 0.5 | | BSC |
| | SE | 0.5 | | BSC |
| PACKAGE EDGE TOLERANCE | aaa | 0.15 | | |
| SUBSTRATE FLATNESS | bbb | 0.25 | | |
| COPLANARITY | ddd | 0.2 | | |



DATE: 04/13/20

DESCRIPTION: 196-Ball, H-FCBGA150150-196 (HFCBGA)

PACKAGE CODE: HFC (HFC196)

DOCUMENT CONTROL #: PD-2254

REVISION: A

NOTES:
1. ALL DIMENSIONS ARE IN mm.