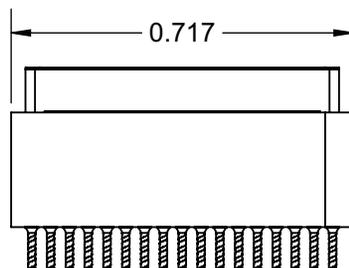
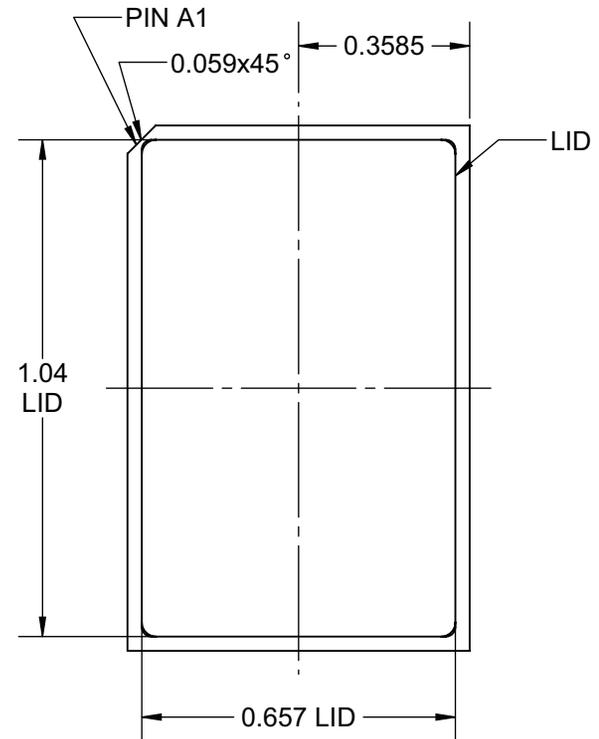
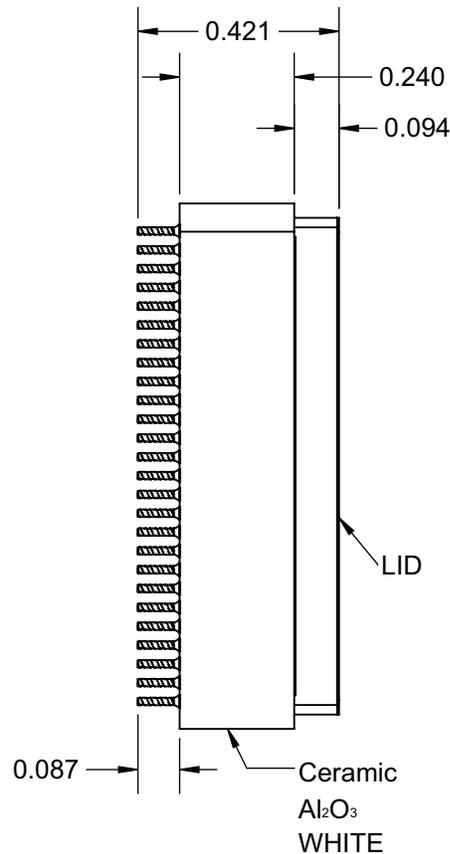
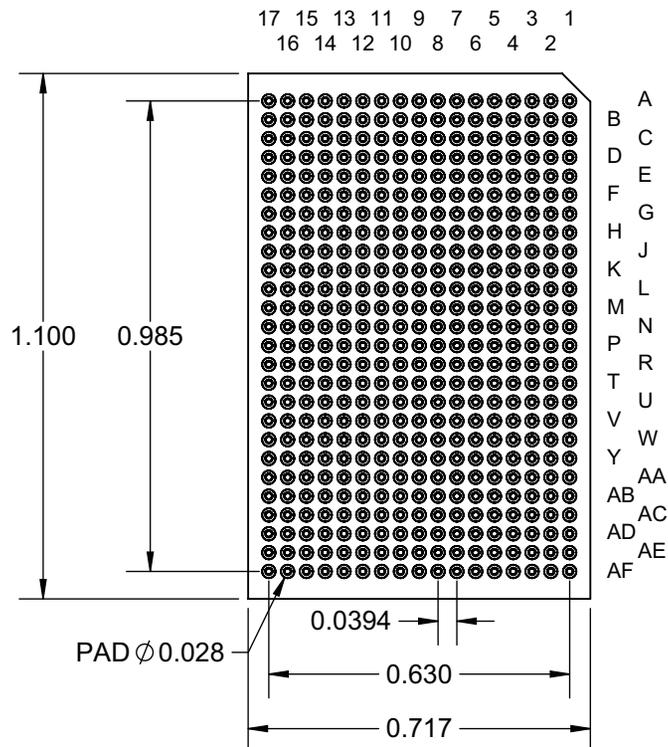


BOTTOM VIEW

SIDE VIEW

TOP VIEW WITH LID



Pb80/Sn20
Pb85/Sn15
Cu RIBBON

- Notes: (Unless Otherwise Specified).
 1) DIMENSIONS ARE INCHES.
 2) SHOWN WITH COLUMNS.
 3) SHOWN WITH LID COVER ATTACHED.
 4) PART NUMBER CCGA441T1.0-17x26.

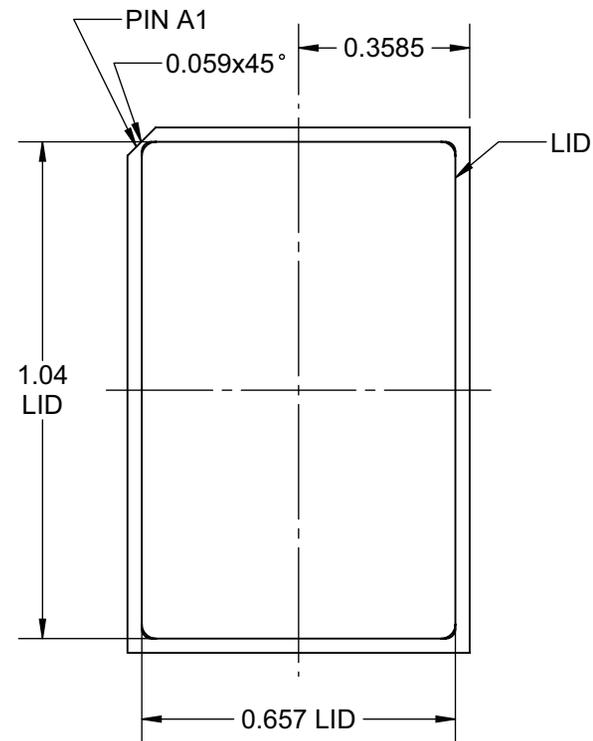
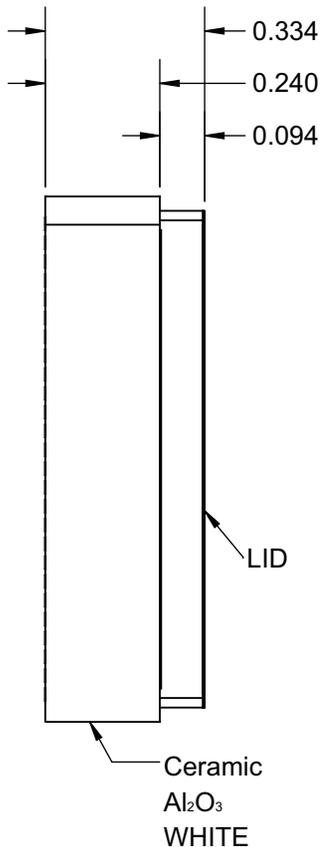
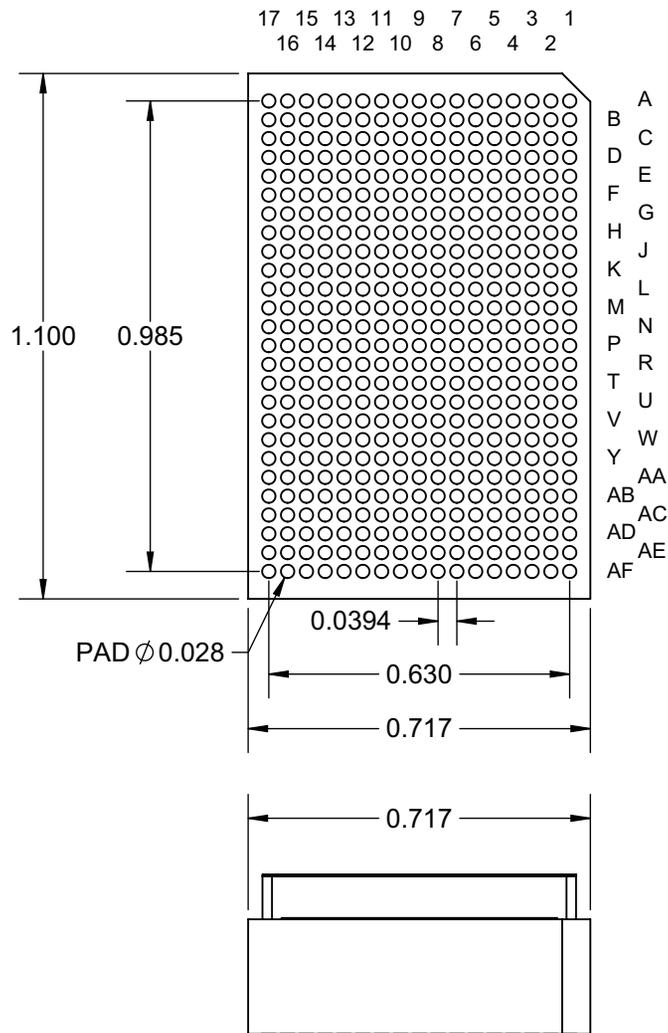
| PART NUMBER OPTIONS | | | |
|---------------------|-----------|------------|-----|
| PART NUMBER | DUMMY DIE | SOLDER PIN | LID |
| CCGA441T1.0-17x26 | YES | YES | YES |

| | | | | | |
|-------------|------------|--|------|-------------|--------------|
| APPROVALS | DATE | TopLine® | | | |
| DRAWN T. Au | 02/19/2020 | | | | |
| ENG M. Hart | 02/19/2020 | TITLE CCGA441T1.0-17x26 DUMMY COLUMN GRID ARRAY | | | |
| MFG | | SCALE | SIZE | DRAWING NO. | REV |
| QA | | 2.5:1 | A | 160072 | A |
| CUST | | DO NOT SCALE DRAWING | | | SHEET 1 OF 7 |
| REVISED | | | | | |

BOTTOM VIEW

SIDE VIEW

TOP VIEW WITH LID



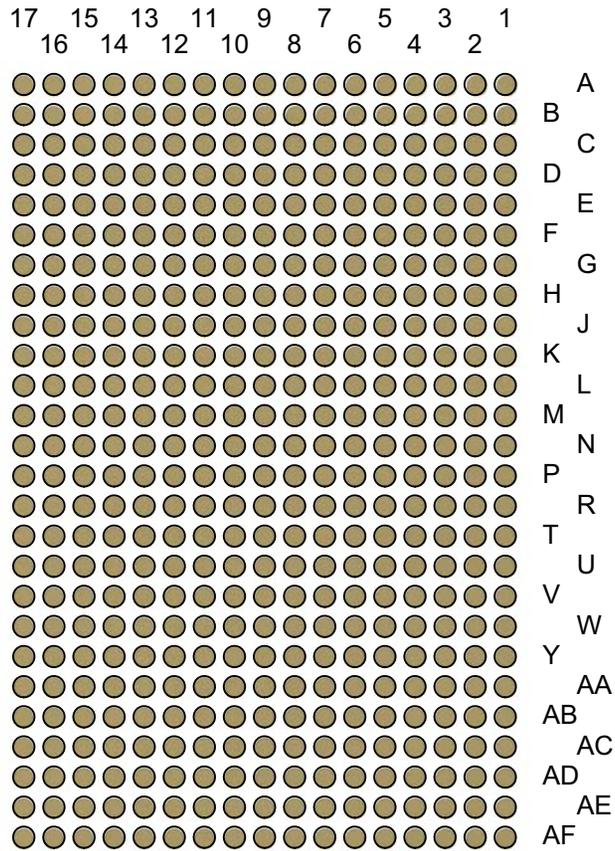
- Notes: (Unless Otherwise Specified).
 1) DIMENSIONS ARE INCHES.
 2) SHOWN WITHOUT COLUMNS.
 3) SHOWN WITH LID COVER ATTACHED.
 4) PART NUMBER CLGA441T1.0-17x26.

| PART NUMBER OPTIONS | | | |
|---------------------|-----------|------------|-----|
| PART NUMBER | DUMMY DIE | SOLDER PIN | LID |
| CLGA441T1.0-17x26 | YES | NONE | YES |

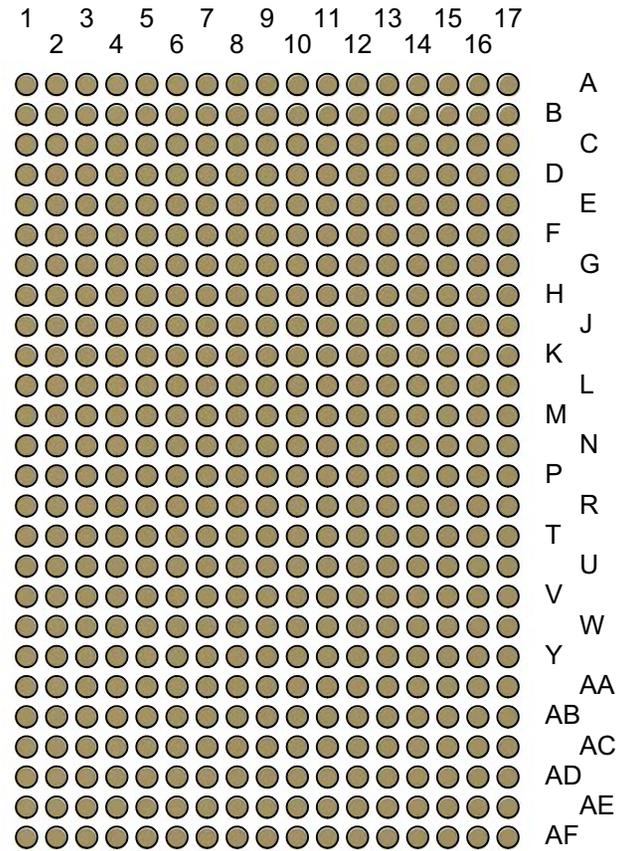
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|-------------|------------|--|--------|--------------------|--------------|
| APPROVALS | DATE | TopLine® | | | |
| DRAWN T. Au | 02/19/2020 | | | | |
| ENG M. Hart | 02/19/2020 | TITLE CCGA441T1.0-17x26 DUMMY COLUMN GRID ARRAY | | | |
| MFG | | SCALE 2.5:1 | SIZE A | DRAWING NO. 160072 | REV A |
| QA | | | | | |
| CUST | | | | | |
| REVISED | | DO NOT SCALE DRAWING | | | SHEET 2 OF 7 |

DAISY CHAIN PATTERN

COLUMN (PAD) VIEW



BOTTOM X-RAY VIEWED FROM TOP



TopLine®

TITLE CCGA441T1.0-17x26
DUMMY COLUMN GRID ARRAY

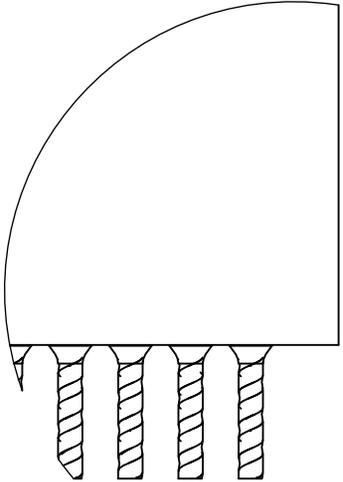
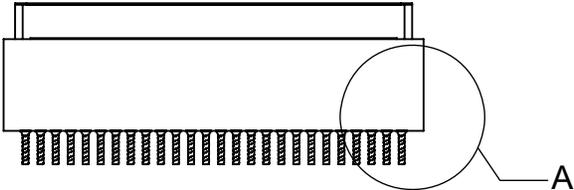
| | | | |
|--------------|-----------|-----------------------|----------|
| SCALE 4:1 | SIZE A | DRAWING NO. 160072 | REV A |
|--------------|-----------|-----------------------|----------|

DO NOT SCALE DRAWING

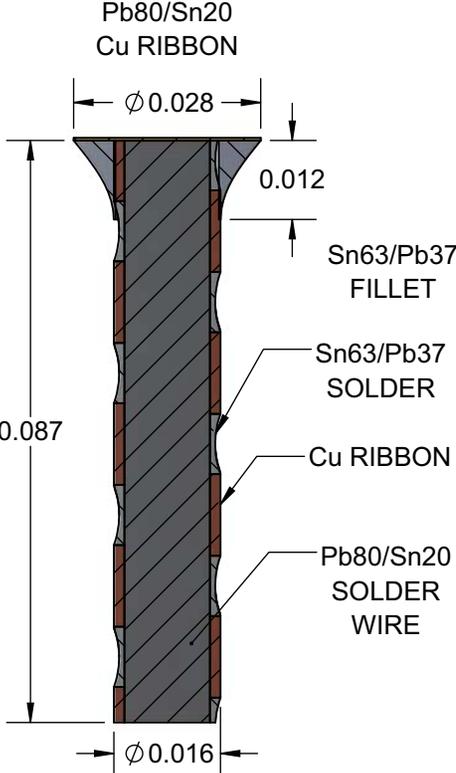
SHEET 3 OF 7

SOLDER PIN OPTIONS

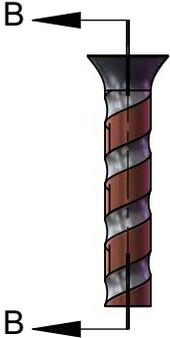
DIMENSIONS: INCHES



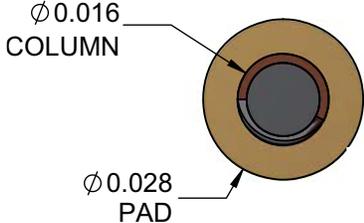
DETAIL A
SCALE 8 : 1



SECTION B-B
SCALE 35 : 1



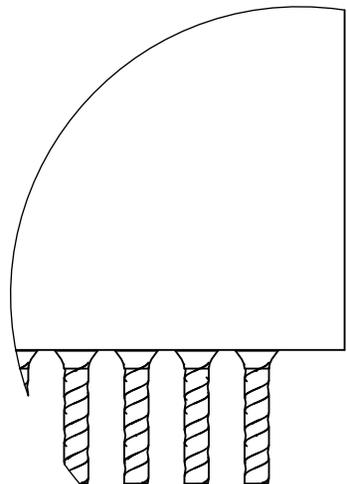
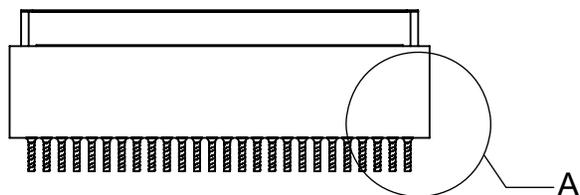
Pb80/Sn20
Cu RIBBON
SCALE 15:1



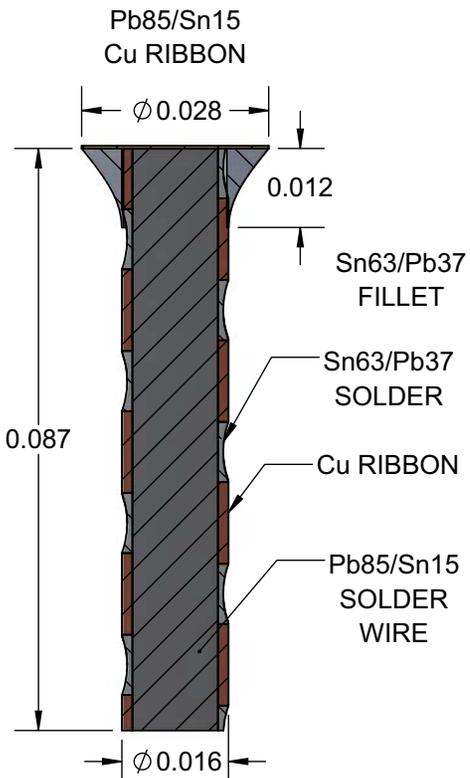
| | | | |
|---|-----------|-----------------------|--------------|
| TopLine® | | | |
| TITLE CCGA441T1.0-17x26 DUMMY COLUMN GRID ARRAY | | | |
| SCALE 8:1 | SIZE A | DRAWING NO. 160072 | REV A |
| DO NOT SCALE DRAWING | | | SHEET 4 OF 7 |

SOLDER PIN OPTIONS

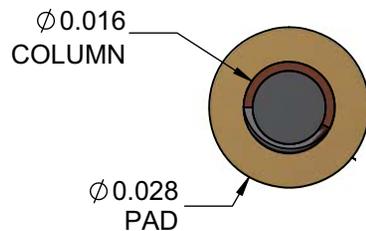
DIMENSIONS: INCHES



DETAIL A
SCALE 8 : 1



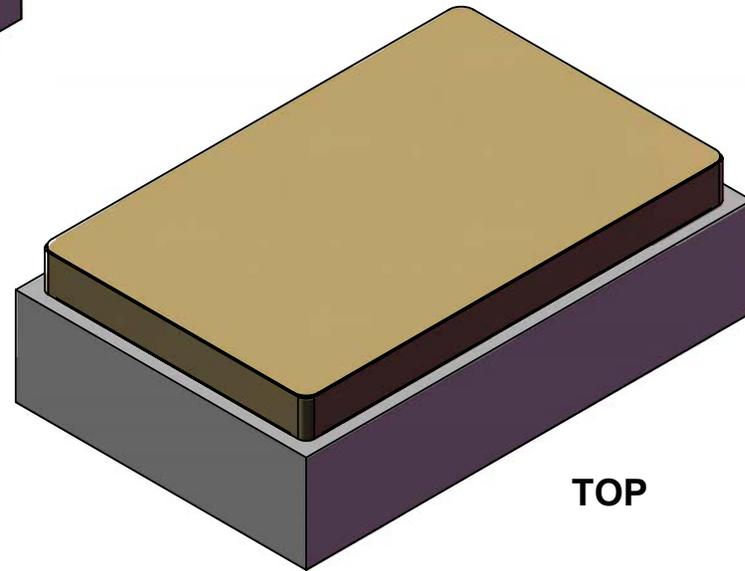
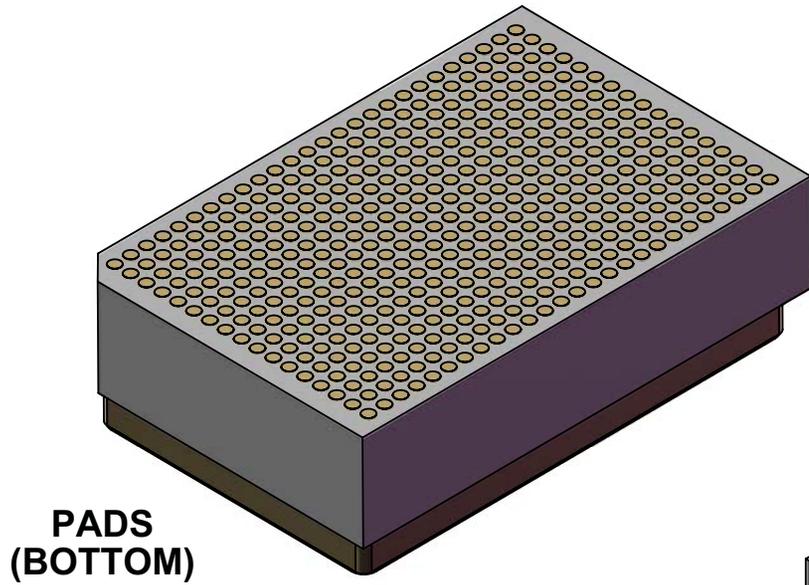
SECTION B-B
SCALE 35 : 1



Pb85/Sn15
Cu RIBBON
SCALE 15:1

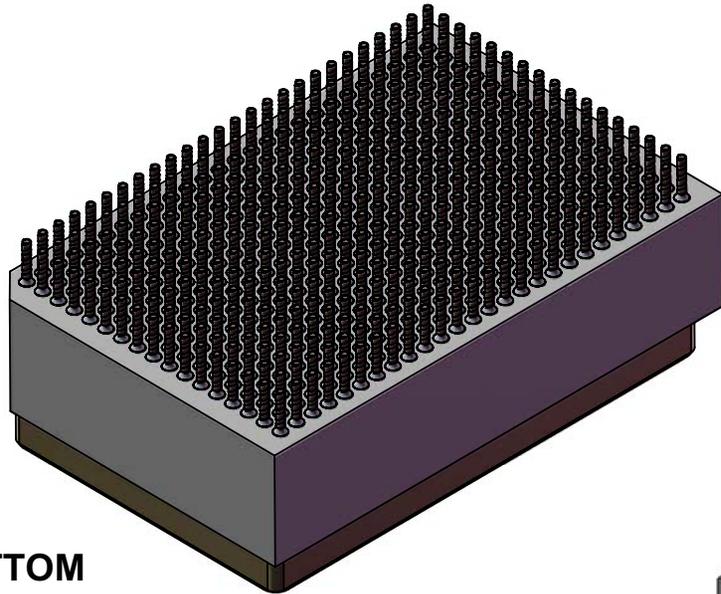
| | | | |
|--|-----------|-----------------------|--------------|
| TopLine[®] | | | |
| TITLE CCGA441T1.0-17x26 DUMMY COLUMN GRID ARRAY | | | |
| SCALE 8:1 | SIZE A | DRAWING NO. 160072 | REV A |
| DO NOT SCALE DRAWING | | | SHEET 5 OF 7 |

MODEL
CLGA441T1.0-17x26
LID/COVER ATTACHED

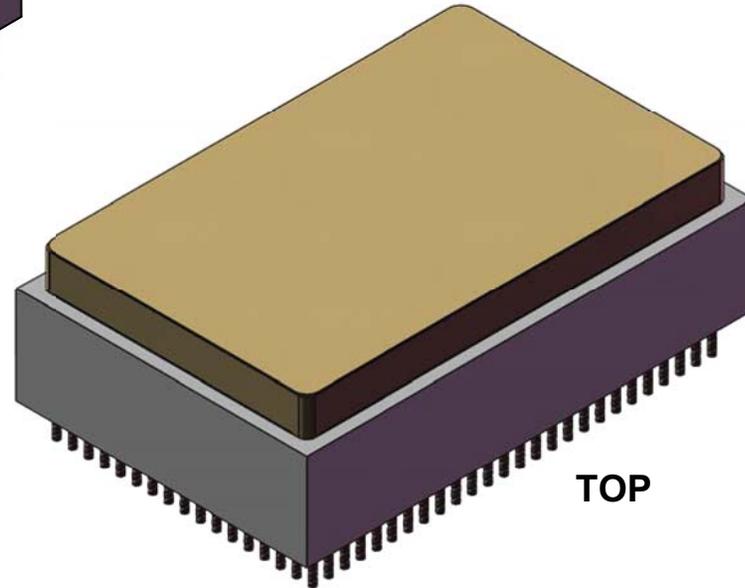


| | | | |
|--|-----------|-----------------------|--------------|
| TopLine® | | | |
| TITLE CCGA441T1.0-17x26 DUMMY COLUMN GRID ARRAY | | | |
| SCALE 3:1 | SIZE A | DRAWING NO. 160072 | REV A |
| DO NOT SCALE DRAWING | | | SHEET 6 OF 7 |

MODEL
CCGA441T1.0-17x26
Pb80/Sn20 ~ Pb85/Sn15 COPPER WRAPPED
COLUMNS



BOTTOM



TOP

TopLine®

TITLE CCGA441T1.0-17x26
DUMMY COLUMN GRID ARRAY

| | | | |
|-------|------|-------------|-----|
| SCALE | SIZE | DRAWING NO. | REV |
| 3:1 | A | 160072 | A |

DO NOT SCALE DRAWING

SHEET 7 OF 7