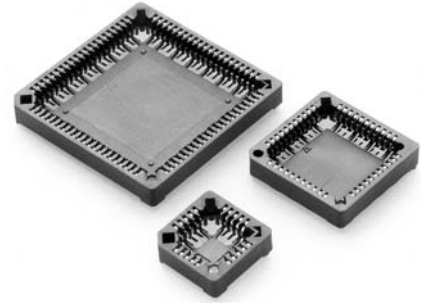
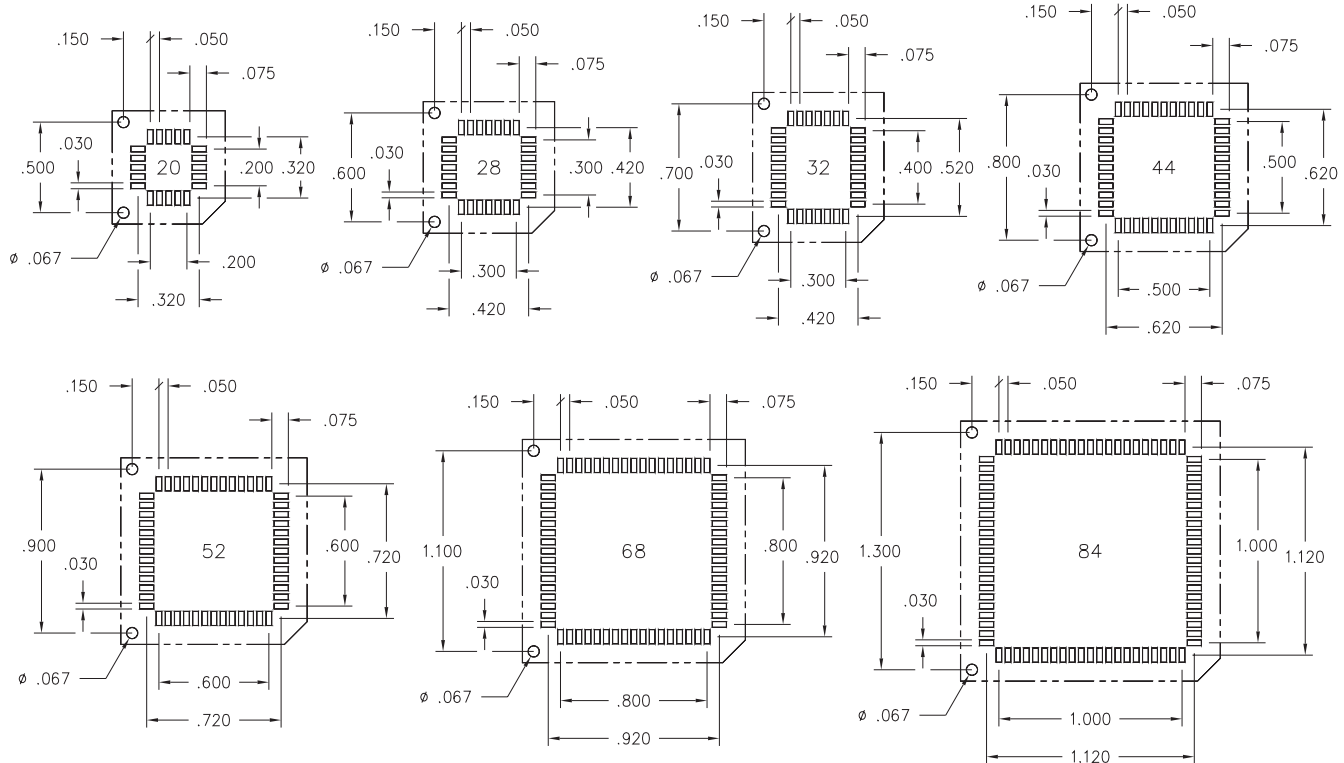


- Note: End stackable.
- Designed for JEDEC type devices.
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads.
- The brown PPS (Ryton R-4) insulator has optional polarizing pegs (PP).
- PLCC chip extraction tool available, see page 96.



SURFACE MOUNT

PCB LAYOUT FOR SURFACE MOUNT



AVAILABLE PACKAGED IN TUBES OR ON TAPE AND REEL PER EIA-481

| No. of Pins | ORDERING INFORMATION | A1 | A2 | C1 | C2 | E | H | Qty. per Tube | Tape Width mm | Qty. per Reel |
|-------------|----------------------|-------|-------|-------|-------|-------|------|---------------|---------------|---------------|
| 20 | 540-99-020-17-400X0X | .200 | .200 | .585 | .585 | .657 | .180 | 34 | 24 | 490 |
| 28 | 540-99-028-17-400X0X | .300 | .300 | .685 | .685 | .799 | .180 | 29 | 32 | 400 |
| 32* | 540-99-032-17-400X0X | .300 | .400 | .670 | .770 | .885 | .148 | 26 | 32 | 400 |
| 44 | 540-99-044-17-400X0X | .500 | .500 | .885 | .885 | 1.082 | .180 | 22 | 44 | 250 |
| 52 | 540-99-052-17-400X0X | .600 | .600 | 1.000 | 1.000 | 1.224 | .180 | 20 | 44 | 250 |
| 68 | 540-99-068-17-400X0X | .800 | .800 | 1.202 | 1.202 | 1.507 | .180 | 16 | 44 | 250 |
| 84 | 540-99-084-17-400X0X | 1.000 | 1.000 | 1.400 | 1.400 | 1.791 | .180 | 14 | 56 | 200 |

*Rectangular

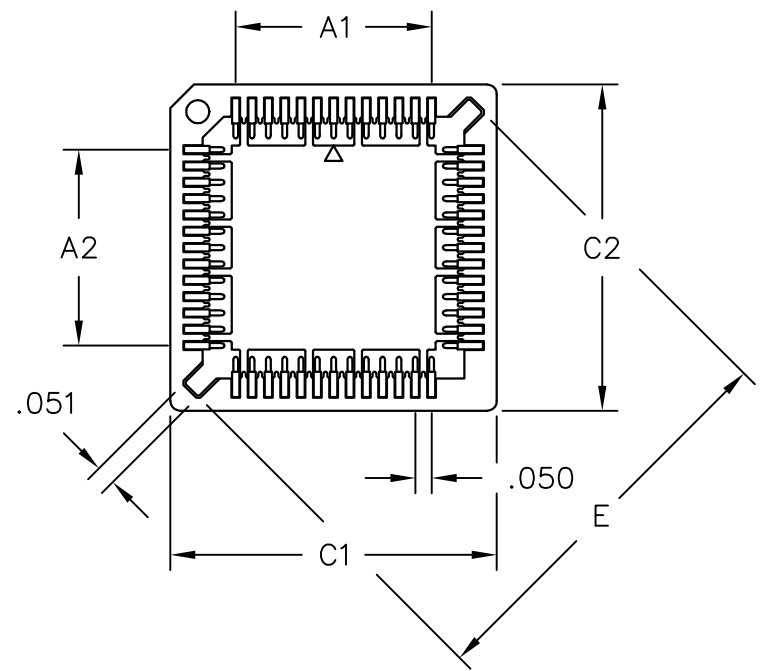
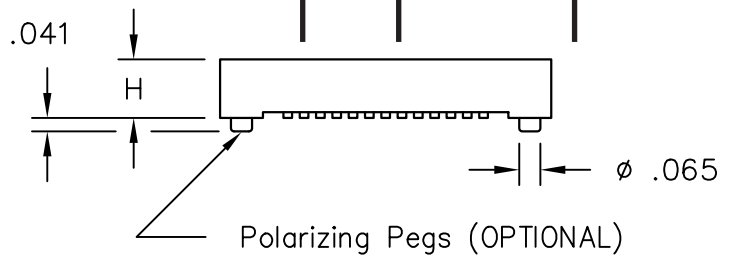
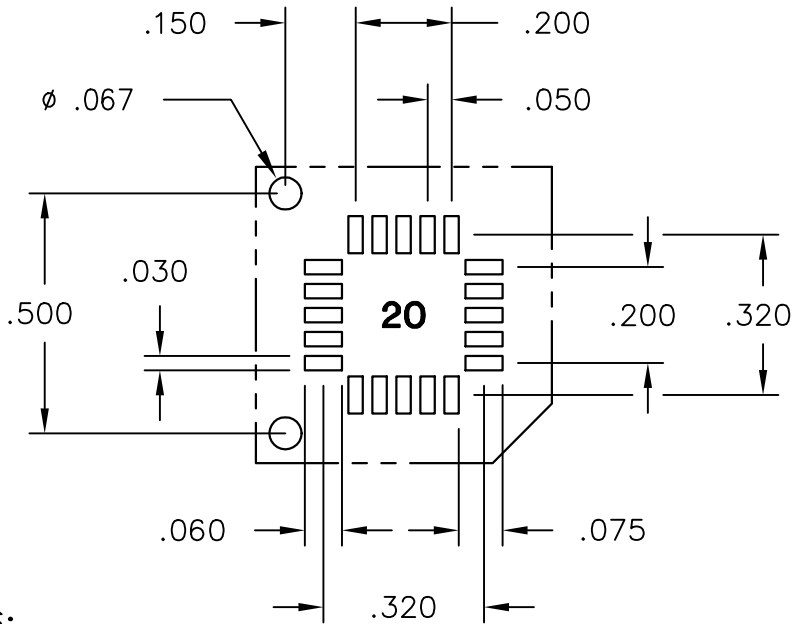
X= 0 Without PP X= 0 Tube Packaged
X= 2 With PP X= 4 Tape and Reel

ALL SERIES 540 CONTACTS ARE PLATED TIN/LEAD. SEE PAGE 96 FOR TECHNICAL SPECIFICATIONS.

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| REV. | DATE | REV. DESCRIPTION |
|------|------|------------------|
| | | |

**PRINTED CIRCUIT BOARD FOOTPRINT LAYOUT
(TOP VIEW)**



ORDER AS:

540-99-020-17-400X0X

X = 0 TUBE PACKAGED
 X = 4 TAPE AND REEL

X = 0 WITHOUT POLORIZING PEGS
 X = 2 WITH POLORIZING PEGS

- NOTES: End Stackable.
- Designed for JEDEC type MS-018 & MS-016 devices
- Contact Material: Copper Alloy.
- Contact Finish: Tin/Lead over Nickel.
- Insulator Material: (Brown) PPS Ryton R-4 Rated
 UL 94 V-0.

| Pins | - A1 - | - A2 - | - C1 - | - C2 - | - E - | - H - | Qty. per Tube | Qty. per Reel | Tape Width mm |
|------|--------|--------|--------|--------|-------|-------|---------------|---------------|---------------|
| 20 | .200 | .200 | .585 | .585 | .657 | .180 | 34 | 490 | 24mm |



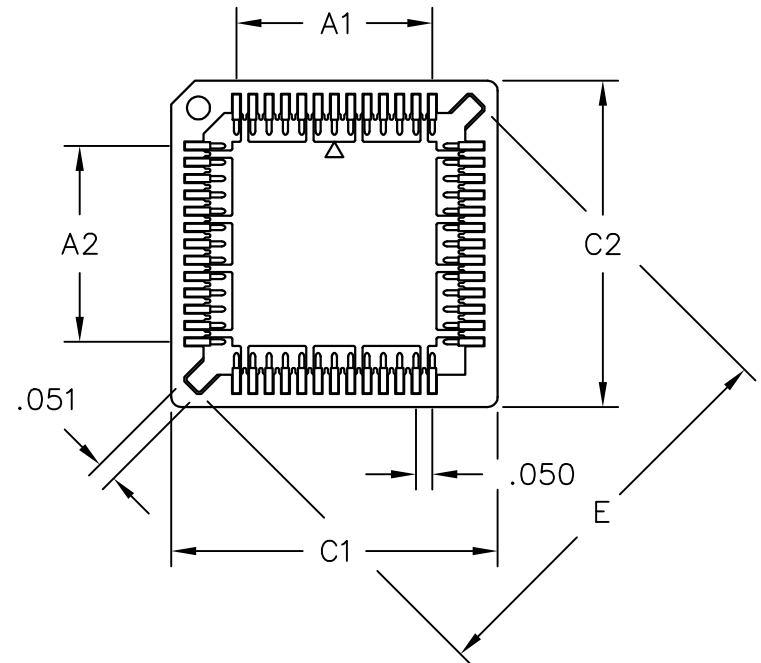
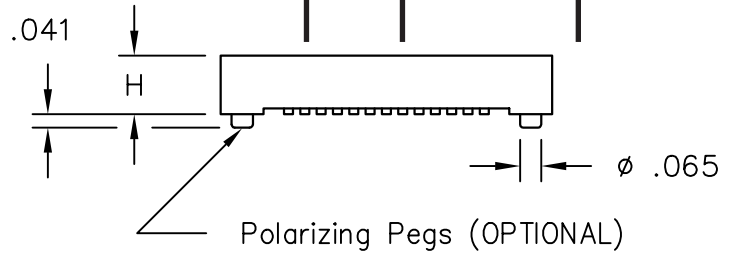
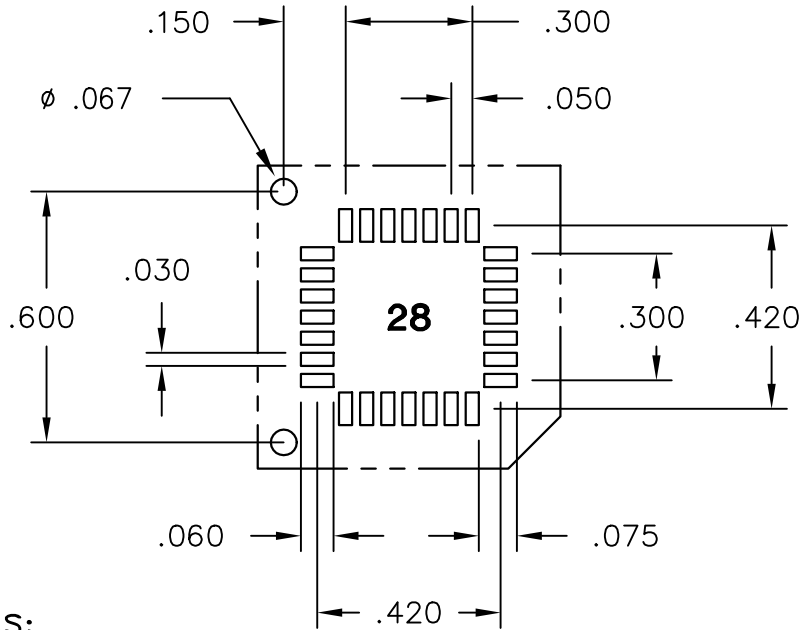
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| ALL DIMENSIONS IN INCHES | | DATE | DRAWN | ENG. APPROVAL | SHEET NUMBER |
|-------------------------------|----------------------|----------------------------------|-------|----------------|--------------|
| PIN TOLERANCES BEFORE PLATING | INSULATOR TOLERANCES | 10/08/02 | D.M. | | 1 of 7 |
| LENGTHS: ±.005 | LENGTHS: ±.005 | TITLE 20 PIN SMT PLCC PIN-OUT | | | |
| DIAMETERS: ±.002 | THICKNESS: ±.003 | | | | |
| ANGLES: ±2° | HOLE TO HOLE: ±.001 | CUSTOMER APPROVAL | | DRAWING NUMBER | REV |
| | NON ACCUMULATIVE | | | 540SERIES SMT | - |

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| REV. | DATE | REV. DESCRIPTION |
|------|------|------------------|
| | | |

**PRINTED CIRCUIT BOARD FOOTPRINT LAYOUT
 (TOP VIEW)**



ORDER AS:

540-99-028-17-400X0X

X = 0 TUBE PACKAGED
 X = 4 TAPE AND REEL

X = 0 WITHOUT POLORIZING PEGS
 X = 2 WITH POLORIZING PEGS

- NOTES: End Stackable.
- Designed for JEDEC type MS-018 & MS-016 devices.
- Contact Material: Copper Alloy.
- Contact Finish: Tin/Lead over Nickel.
- Insulator Material: (Brown) PPS Ryton R-4 Rated
 UL 94 V-0.

| Pins | - A1 - | - A2 - | - C1 - | - C2 - | - E - | - H - | Qty. per Reel | Qty. per Tube | Tape Width mm |
|------|--------|--------|--------|--------|-------|-------|---------------|---------------|---------------|
| 28 | .300 | .300 | .685 | .685 | .799 | .180 | 29 | 400 | 32mm |



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ALL DIMENSIONS IN INCHES

| PIN TOLERANCES BEFORE PLATING | INSULATOR TOLERANCES |
|-------------------------------|----------------------|
| LENGTHS: ±.005 | LENGTHS: ±.005 |
| DIAMETERS: ±.002 | THICKNESS: ±.003 |
| ANGLES: ±2° | HOLE TO HOLE: ±.001 |
| | NON ACCUMULATIVE |

| DATE | DRAWN | ENG. APPROVAL | SHEET NUMBER |
|----------|-------|---------------|--------------|
| 10/08/02 | D.M. | | 2 of 7 |

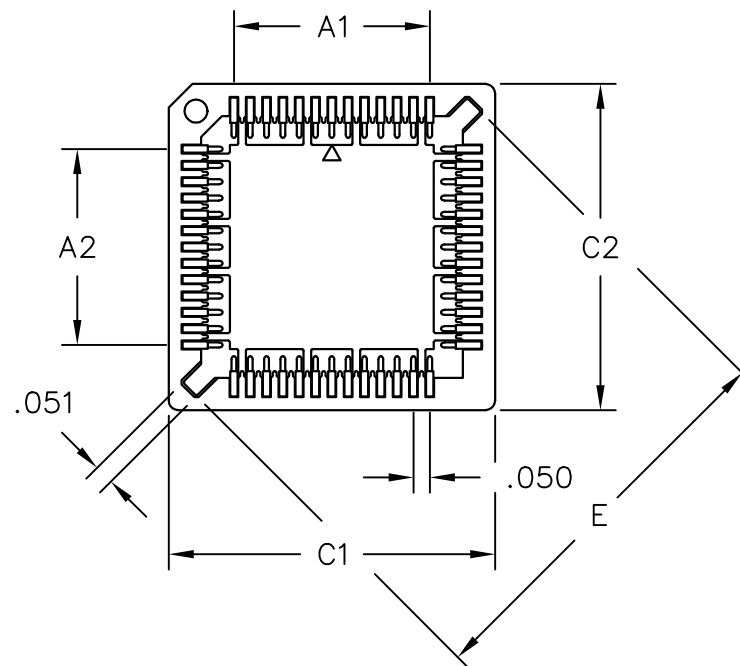
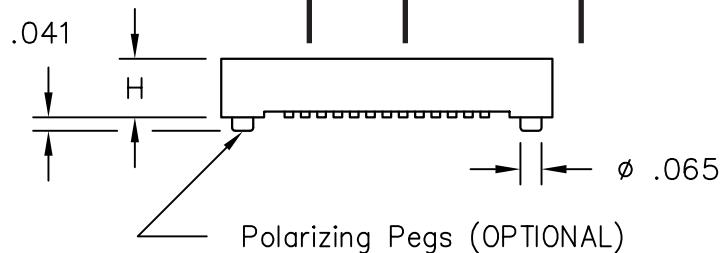
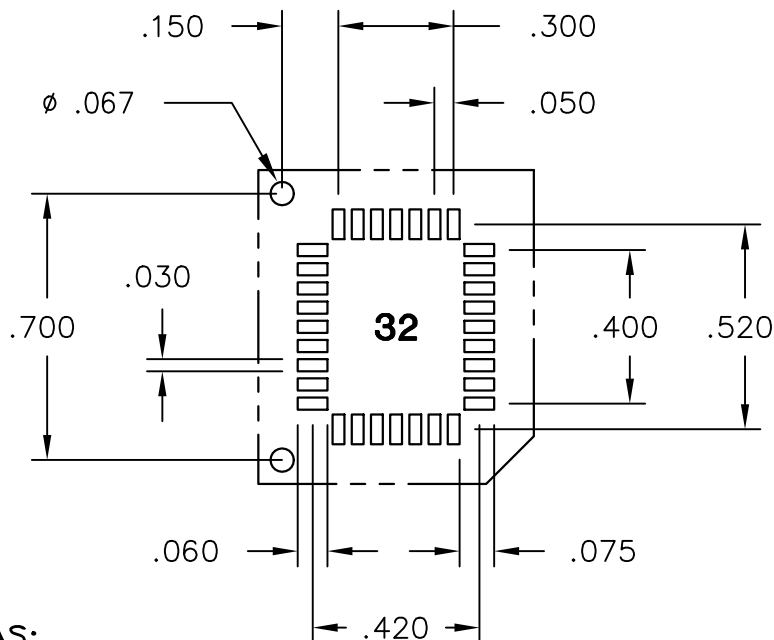
TITLE
 28 PIN SMT PLCC PIN-OUT

| CUSTOMER APPROVAL | DRAWING NUMBER | REV |
|-------------------|----------------|-----|
| | 540SERIESSMT | - |

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| REV. | DATE | REV. DESCRIPTION |
|------|------|------------------|
| | | |

**PRINTED CIRCUIT BOARD FOOTPRINT LAYOUT
 (TOP VIEW)**



ORDER AS:

540-99-032-17-400X0X

X = 0 TUBE PACKAGED
 X = 4 TAPE AND REEL

X = 0 WITHOUT POLORIZING PEGS
 X = 2 WITH POLORIZING PEGS

| Pins | - A1 - | - A2 - | - C1 - | - C2 - | - E - | - H - | Qty. per Reel | Qty. per Tube | Tape Width mm |
|------|--------|--------|--------|--------|-------|-------|---------------|---------------|---------------|
| 32 | .300 | .400 | .670 | .770 | .885 | .148 | 26 | 400 | 32mm |

- NOTES: End Stackable.
- Designed for JEDEC type MS-018 & MS-016 devices.
- Contact Material: Copper Alloy.
- Contact Finish: Tin/Lead over Nickel.
- Insulator Material: (Brown) PPS Ryton R-4 Rated UL 94 V-0.



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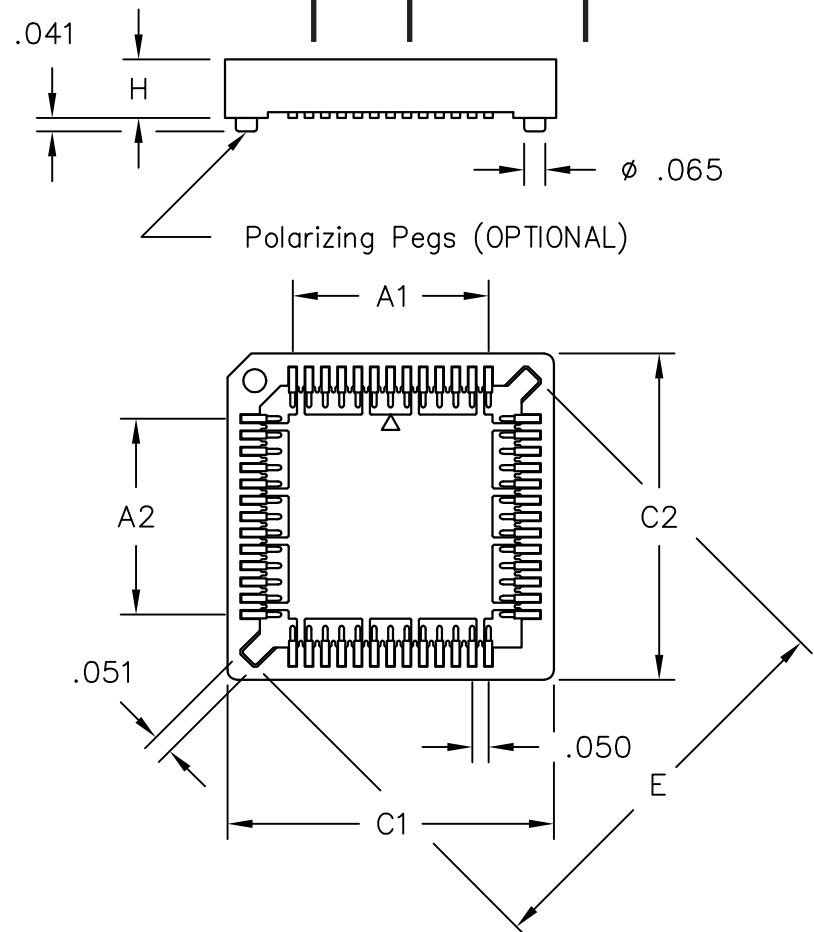
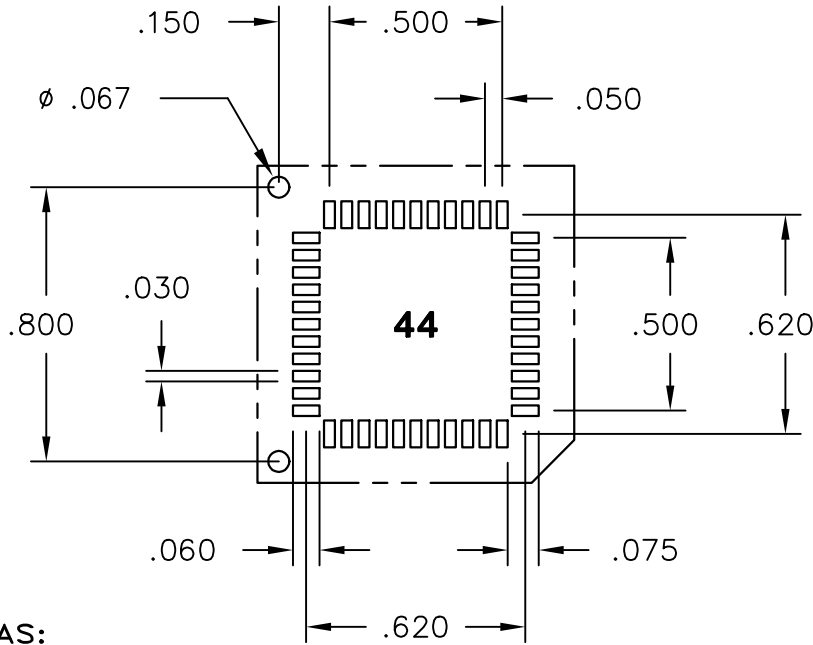
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| ALL DIMENSIONS IN INCHES | | DATE | DRAWN | ENG. APPROVAL | SHEET NUMBER |
|-------------------------------|--|-------------------------|-------|----------------|--------------|
| PIN TOLERANCES BEFORE PLATING | | 10/08/02 | D.M. | | 3 of 7 |
| INSULATOR TOLERANCES | | TITLE | | | |
| LENGTHS: ±.005 | | 32 PIN SMT PLCC PIN-OUT | | | |
| DIAMETERS: ±.002 | | CUSTOMER APPROVAL | | DRAWING NUMBER | |
| ANGLES: ±2° | | | | 540SERIES SMT | |
| LENGTHS: ±.005 | | | | REV | |
| THICKNESS: ±.003 | | | | - | |
| HOLE TO HOLE: ±.001 | | | | | |
| NON ACCUMULATIVE | | | | | |

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| REV. | DATE | REV. DESCRIPTION |
|------|------|------------------|
| | | |

**PRINTED CIRCUIT BOARD FOOTPRINT LAYOUT
(TOP VIEW)**



ORDER AS:

540-99-044-17-400X0X

X = 0 TUBE PACKAGED
 X = 4 TAPE AND REEL

X = 0 WITHOUT POLORIZING PEGS
 X = 2 WITH POLORIZING PEGS

- NOTES: End Stackable.
- Designed for JEDEC type MS-018 & MS-016 devices.
- Contact Material: Copper Alloy.
- Contact Finish: Tin/Lead over Nickel.
- Insulator Material: (Brown) PPS Ryton R-4 Rated
 UL 94 V-0.

| Pins | - A1 - | - A2 - | - C1 - | - C2 - | - E - | - H - | Qty. per Reel | Qty. per Tube | Tape Width mm |
|------|--------|--------|--------|--------|-------|-------|---------------|---------------|---------------|
| 44 | .500 | .500 | .885 | .885 | 1.082 | .180 | 22 | 250 | 44mm |



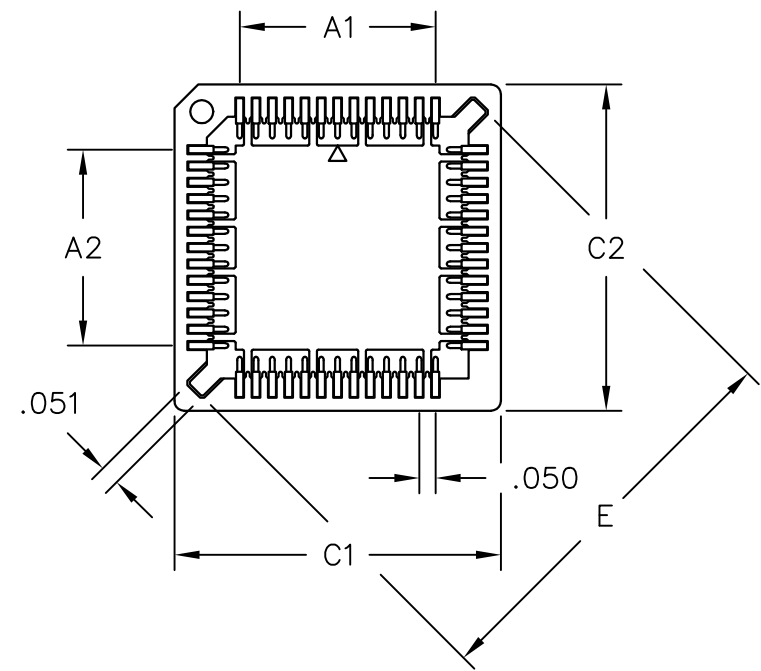
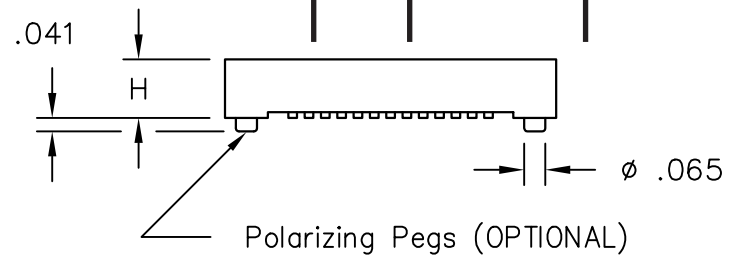
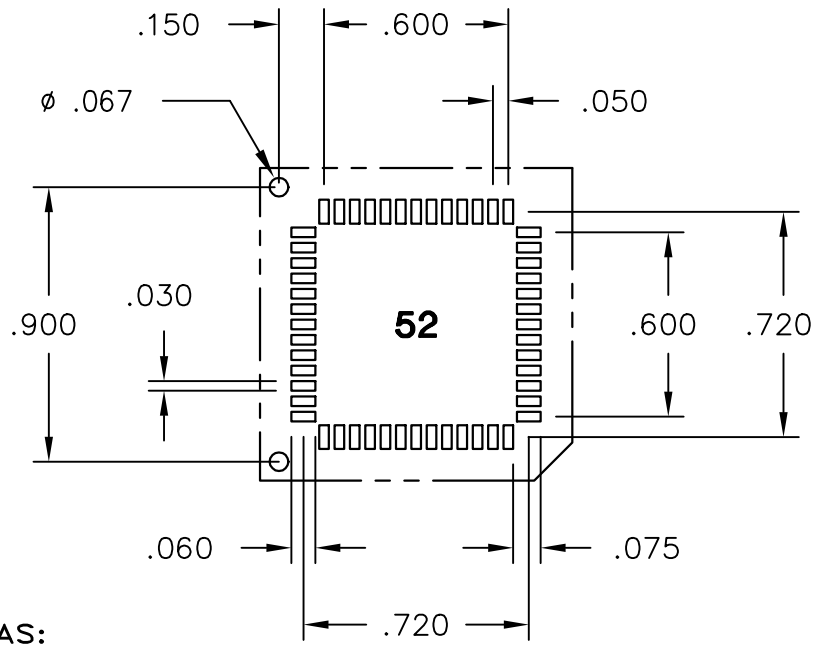
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| ALL DIMENSIONS IN INCHES | | DATE | DRAWN | ENG. APPROVAL | SHEET NUMBER |
|---|--|----------------------------------|----------------|---------------|--------------|
| PIN TOLERANCES BEFORE PLATING LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ±2° | | 10/08/02 | D.M. | | 4 of 7 |
| INSULATOR TOLERANCES LENGTHS: ±.005 THICKNESS: ±.003 HOLE TO HOLE: ±.001 NON ACCUMULATIVE | | TITLE 44 PIN SMT PLCC PIN-OUT | | | |
| CUSTOMER APPROVAL | | | DRAWING NUMBER | | REV |
| | | | 540SERIES SMT | | - |

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| REV. | DATE | REV. DESCRIPTION |
|------|------|------------------|
| | | |

**PRINTED CIRCUIT BOARD FOOTPRINT LAYOUT
(TOP VIEW)**



ORDER AS:

540-99-052-17-400X0X

X = 0 TUBE PACKAGED
 X = 4 TAPE AND REEL

X = 0 WITHOUT POLORIZING PEGS
 X = 2 WITH POLORIZING PEGS

- NOTES: End Stackable.
- Designed for JEDEC type MS-018 & MS-016 devices.
- Contact Material: Copper Alloy.
- Contact Finish: Tin/Lead over Nickel.
- Insulator Material: (Brown) PPS Ryton R-4 Rated
 UL 94 V-0.

| Pins | - A1 - | - A2 - | - C1 - | - C2 - | - E - | - H - | Qty. per Reel | Qty. per Tube | Tape Width mm |
|------|--------|--------|--------|--------|-------|-------|---------------|---------------|---------------|
| 52 | .600 | .600 | 1.000 | 1.000 | 1.224 | .180 | 20 | 250 | 44mm |



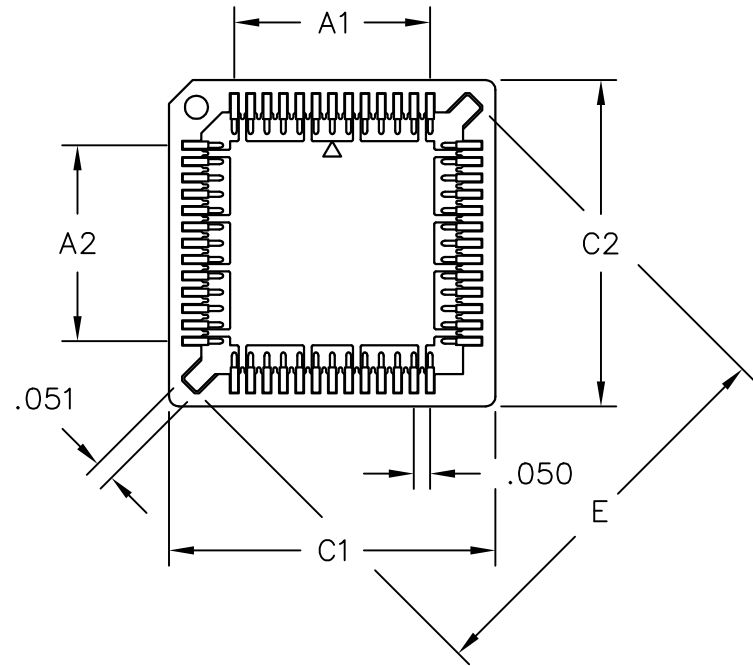
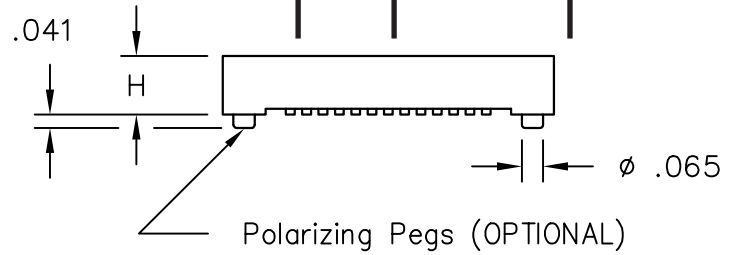
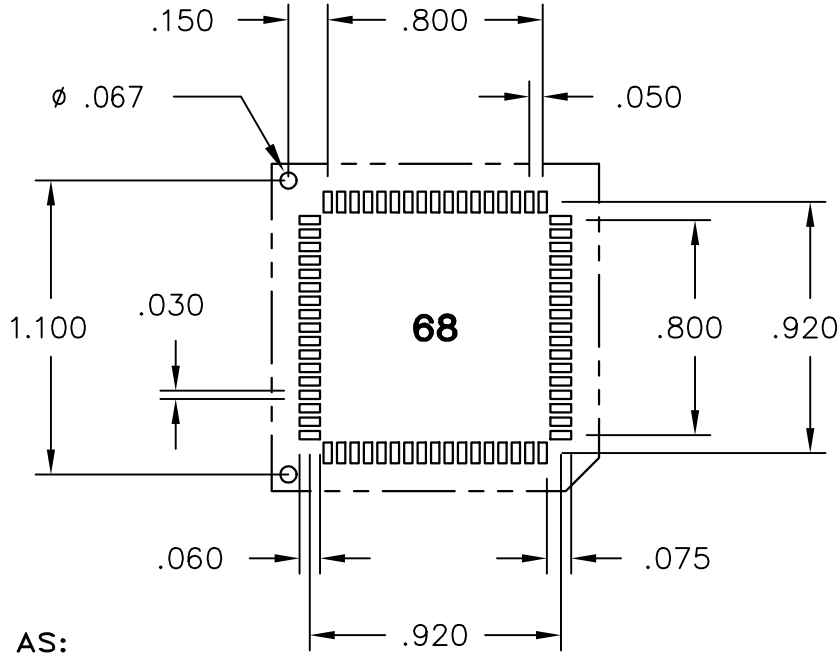
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| ALL DIMENSIONS IN INCHES | | DATE | DRAWN | ENG. APPROVAL | SHEET NUMBER |
|-------------------------------|----------------------|----------------------------------|-------|----------------|--------------|
| PIN TOLERANCES BEFORE PLATING | INSULATOR TOLERANCES | 10/08/02 | D.M. | | 5 of 7 |
| LENGTHS: ±.005 | LENGTHS: ±.005 | TITLE 52 PIN SMT PLCC PIN-OUT | | | |
| DIAMETERS: ±.002 | THICKNESS: ±.003 | | | | |
| ANGLES: ±2° | HOLE TO HOLE: ±.001 | CUSTOMER APPROVAL | | DRAWING NUMBER | REV |
| | NON ACCUMULATIVE | | | 540SERIES SMT | - |

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| REV. | DATE | REV. DESCRIPTION |
|------|------|------------------|
| | | |

**PRINTED CIRCUIT BOARD FOOTPRINT LAYOUT
(TOP VIEW)**



ORDER AS:

540-99-068-17-400X0X

X = 0 TUBE PACKAGED
 X = 4 TAPE AND REEL

X = 0 WITHOUT POLORIZING PEGS
 X = 2 WITH POLORIZING PEGS

- NOTES: End Stackable.
- Designed for JEDEC type MS-018 & MS-016 devices.
- Contact Material: Copper Alloy.
- Contact Finish: Tin/Lead over Nickel.
- Insulator Material: (Brown) PPS Ryton R-4 Rated
 UL 94 V-0.

| Pins | - A1 - | - A2 - | - C1 - | - C2 - | - E - | - H - | Qty. per Reel | Qty. per Tube | Tape Width mm |
|------|--------|--------|--------|--------|-------|-------|---------------|---------------|---------------|
| 68 | .800 | .800 | 1.202 | 1.202 | 1.507 | .180 | 16 | 250 | 44mm |



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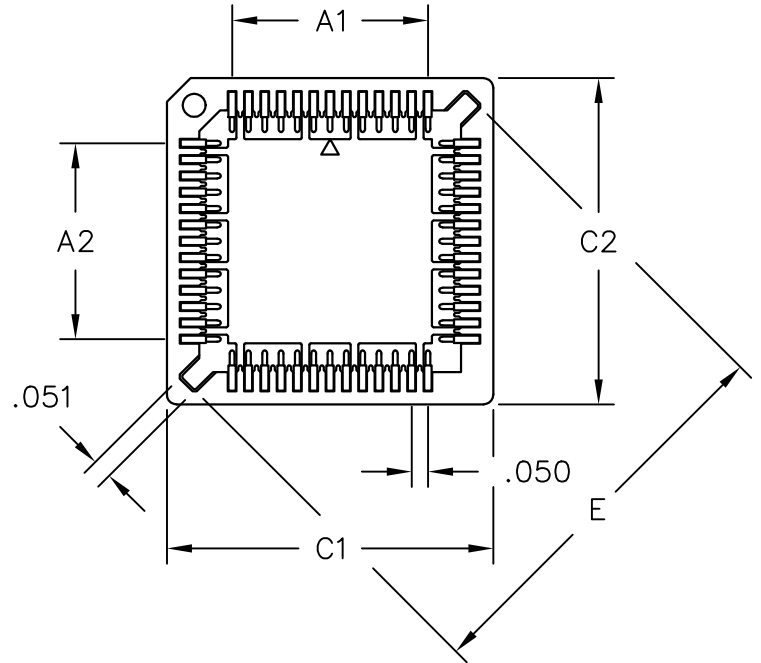
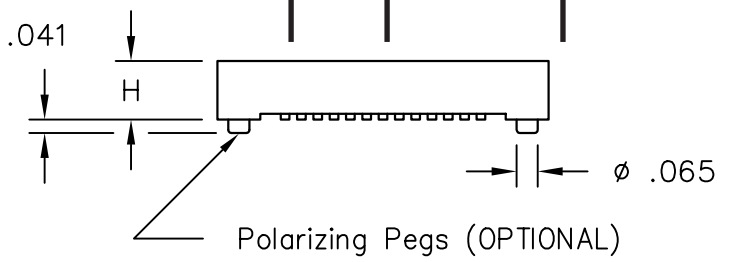
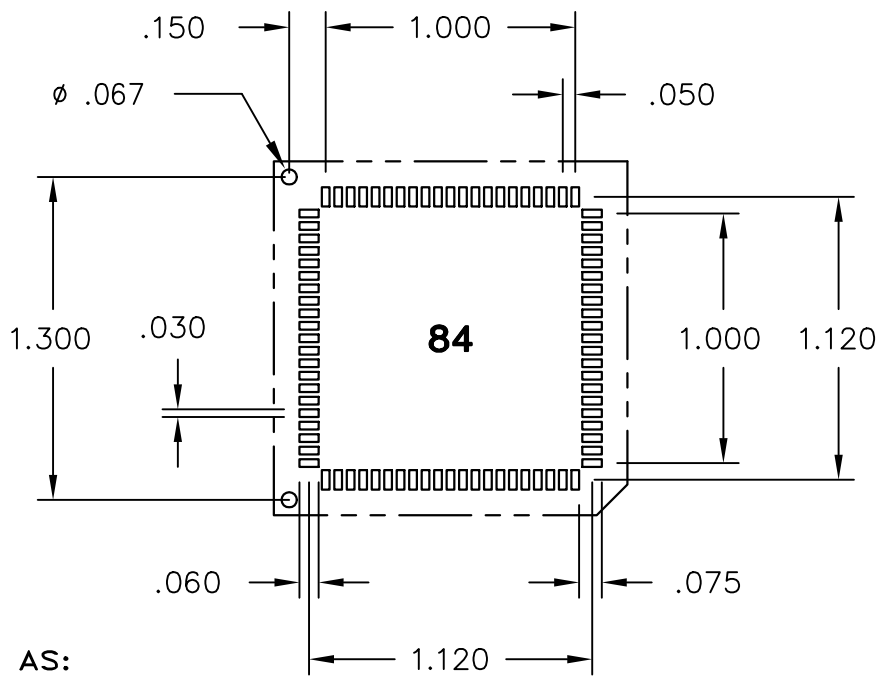
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| ALL DIMENSIONS IN INCHES | | DATE | DRAWN | ENG. APPROVAL | SHEET NUMBER |
|---|--|----------------------------------|----------------|---------------|--------------|
| PIN TOLERANCES BEFORE PLATING LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ±2° | | 10/08/02 | D.M. | | 6 of 7 |
| INSULATOR TOLERANCES LENGTHS: ±.005 THICKNESS: ±.003 HOLE TO HOLE: ±.001 NON ACCUMULATIVE | | TITLE 68 PIN SMT PLCC PIN-OUT | | | |
| CUSTOMER APPROVAL | | | DRAWING NUMBER | | REV |
| | | | 540SERIESSMT | | - |

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| REV. | DATE | REV. DESCRIPTION |
|------|------|------------------|
| | | |

**PRINTED CIRCUIT BOARD FOOTPRINT LAYOUT
(TOP VIEW)**



ORDER AS:

540-99-084-17-400XOX

X = 0 TUBE PACKAGED
 X = 4 TAPE AND REEL

X = 0 WITHOUT POLORIZING PEGS
 X = 2 WITH POLORIZING PEGS

- NOTES: End Stackable.
- Designed for JEDEC type MS-018 & MS-016 devices.
- Contact Material: Copper Alloy.
- Contact Finish: Tin/Lead over Nickel.
- Insulator Material: (Brown) PPS Ryton R-4 Rated
 UL 94 V-0.

| Pins | - A1 - | - A2 - | - C1 - | - C2 - | - E - | - H - | Qty. per Reel | Qty. per Tube | Tape Width mm |
|------|--------|--------|--------|--------|-------|-------|---------------|---------------|---------------|
| 84 | 1.000 | 1.000 | 1.400 | 1.400 | 1.791 | .180 | 14 | 200 | 56mm |



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| ALL DIMENSIONS IN INCHES | | DATE | DRAWN | ENG. APPROVAL | SHEET NUMBER |
|-------------------------------|----------------------|----------------------------------|-------|----------------|--------------|
| PIN TOLERANCES BEFORE PLATING | INSULATOR TOLERANCES | 10/08/02 | D.M. | | 7 of 7 |
| LENGTHS: ±.005 | LENGTHS: ±.005 | TITLE 84 PIN SMT PLCC PIN-OUT | | | |
| DIAMETERS: ±.002 | THICKNESS: ±.003 | | | | |
| ANGLES: ±2° | HOLE TO HOLE: ±.001 | CUSTOMER APPROVAL | | DRAWING NUMBER | REV |
| | NON ACCUMULATIVE | | | 540SERIESSMT | - |