

PRODUCT NUMBER  
SEE TABLE

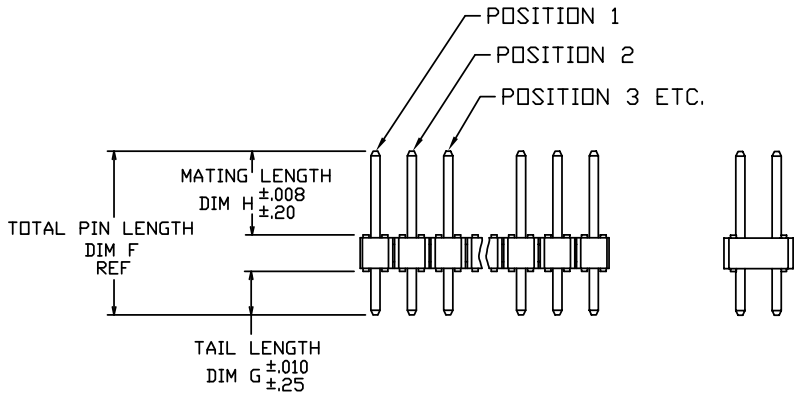
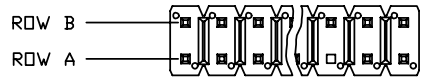
NOTES:

1. FOR PRODUCT GEOMETRY AND GENERAL INFORMATION SEE DRAWINGS 93197 AND 93196.
2. THIS PART IS CUSTOMER REQUESTED WITH RETENTION ON ALL POSITIONS.
3. ADD "HLF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
4. THESE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
5. PART NUMBERS WITH "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

PART NUMBERS WITHOUT "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR WAVE SOLDER PROCESS.

BODY MATERIAL:  
BERGSTIK: MANUFACTURER'S OPTION OF NYLON, PCT GLASS FIBER REINFORCED, FLAME RETARDENT PER UL-94V-0.  
COLOR : BLACK OR MINERAL FILLED LCP, FLAME RETARDENT PER UL-94V-0.  
COLOR BLACK.

6. PLATING OPTIONS:  
PERFORMANCE PLATING WILL BE EITHER GOLD OR GXT ON POST OR TAIL, OPTIONALLY (78~295u"/2~7.5u") TIN ON TAIL.
7. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."



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| rev | ecn no   | dr  | date       |
|-----|----------|-----|------------|
| BR  | V21909   | MRA | 06/24/03   |
| BS  | V04-0163 | HTB | 2/16/04    |
| BT  | M05-0175 | ERE | 7/28/05    |
| BU  | M06-0269 | MNR | 7/17/06    |
| BV  | M06-0346 | MHT | 9/04/06    |
| BW  | M08-0291 | MHT | 10/06/08   |
| BX  | N11-0118 | J.Z | 2011-04-13 |

|                                       |             |   |                                   |                        |              |
|---------------------------------------|-------------|---|-----------------------------------|------------------------|--------------|
| www.fciconnect.com                    |             | surface 6.4<br>ISO 1302                           | tolerance std<br>ISO 406 ISO 1101 | projection<br>ISO 1101 | INCH/MM      |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |             | ANGULAR   | LINEAR                            | size A4                | Scale 1.000  |
| Dr                                    | T.BREWBAKER | 12/28/94  | 0.X                               | ±0.3                   | ECN N11-0118 |
| Eng                                   | T. HANNA    | 12/28/94  | 0.XX                              | ±0.15                  | Spec ref     |
| Chr                                   | T. HANNA    | 12/28/94  | 0°                                | ±2°                    |              |
| Appr                                  | T. HANNA    | 12/28/94  | Product family BERGSTIK           |                        |              |
| FCI                                   |             | title BERGSTIK® II HDR. D/R<br>.100 PDL. SELF-RET |                                   | dwg no 69197           | Rev. BX      |
| catalog no                            |             | CUSTOMER  |                                   | sheet 1 of 4           |              |

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| PRODUCT NUMBER | SIZE | TOTAL PIN LENGTH |        | TAIL LENGTH |        | MATING LENGTH |        | WIRE CODE | POLARIZED POSITIONS     | PACKAGING       | NOTES | LEAD FREE WIRE CODE | LEAD FREE OPTION |
|----------------|------|------------------|--------|-------------|--------|---------------|--------|-----------|-------------------------|-----------------|-------|---------------------|------------------|
|                |      | DIM F            | DIM F  | DIM G       | DIM G  | DIM H         | DIM H  |           |                         |                 |       |                     |                  |
|                |      | ENGLISH          | METRIC | ENGLISH     | METRIC | ENGLISH       | METRIC |           |                         |                 |       |                     |                  |
| 69197-001      | 2x10 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-3                     | POLY BAGS       | -     | 2                   | NOTE 3, 4        |
| 69197-002      | 2x10 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-7                     | POLY BAGS/TUBES | -     | 2                   |                  |
| 69197-003      | 2x17 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-3                     | POLY BAGS/TUBES | -     | 2                   |                  |
| 69197-004      | 2x17 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-8                     | POLY BAGS/TUBES | -     | 2                   |                  |
| 69197-005      | 2x20 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-11                    | POLY BAGS/TUBES | -     | 2                   |                  |
| 69197-006      | 2x25 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-8                     | POLY BAGS       | -     | 2                   |                  |
| 69197-007      | 2x25 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-10                    | POLY BAGS       | -     | 2                   |                  |
| 69197-008      | 2x25 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-15                    | POLY BAGS       | -     | 2                   |                  |
| 69197-009      | 2x15 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-3                     | POLY BAGS       | -     | 1                   |                  |
| 69197-010      | 2x20 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-1                     | POLY BAGS       | -     | 2                   |                  |
| 69197-011      | 2x25 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-22 B-17               | POLY BAGS       | -     | 2                   |                  |
| 69197-012      | 2x17 | 0.505            | 12.83  | 0.120       | 3.05   | 0.285         | 7.24   | 4         | A-8,9,10,14 B-8,9,10,14 | POLY BAGS       | -     | 4LF                 |                  |
| 69197-013      | 2x7  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-1                     | POLY BAGS       | -     | 2                   |                  |
| 69197-014      | 2x13 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-5                     | POLY BAGS       | -     | 2                   |                  |
| 69197-015      | 2x13 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-4 B-7                 | POLY BAGS       | -     | 1                   |                  |
| 69197-016      | 2x30 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-5                     | POLY BAGS       | -     | 1                   |                  |
| 69197-017      | 2x9  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-3 B-4                 | POLY BAGS       | -     | 1                   |                  |
| 69197-018      | 2x13 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-2                     | POLY BAGS       | -     | 2                   |                  |
| 69197-019      | 2x13 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-12                    | POLY BAGS       | -     | 2                   |                  |
| 69197-020      | 2x12 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-9                     | POLY BAGS       | -     | 2                   |                  |
| 69197-021      | 2x8  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-4 A-5 B-5             | POLY BAGS       | -     | 2                   |                  |
| 69197-022      | 2x6  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-1 B-5                 | POLY BAGS       | -     | 1                   |                  |
| 69197-023      | 2x17 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-3                     | POLY BAGS       | -     | 1                   |                  |
| 69197-024      | 2x20 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-11                    | POLY BAGS       | -     | 1                   |                  |
| 69197-025      | 2x13 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-13                    | POLY BAGS       | -     | 1                   |                  |
| 69197-026      | 2x8  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 1         | A-6 B-1                 | POLY BAGS       | -     | 1                   |                  |
| 69197-027      | 2x3  | 0.720            | 18.29  | 0.120       | 3.05   | 0.500         | 12.70  | 1         | A-2, 3 B-2, 3           | POLY BAGS       | -     | 1                   |                  |

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|--------------------|-------------|----------|--|--|--------------|---------|--------------|
| www.fciconnect.com |             |          | surface <input checked="" type="checkbox"/> ISO 1302 | tolerance std <input checked="" type="checkbox"/> ISO 406 ISO 1101 | projection   | INCH/MM |              |
|                    |             |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                |  |              |         |              |
| Dr                 | T.BREWBAKER | 12/28/94 | ANGULAR  | LINEAR   | 0.X          | ±0.3    | size A4      |
| Eng                | T. HANNA    | 12/28/94 |  |  | 0.XX         | ±0.15   |              |
| Chr                | T. HANNA    | 12/28/94 | 0°   | ±2°  | 0.XXX        | ±0.05   | ECN N11-0118 |
| Appr               | T. HANNA    | 12/28/94 | Product family BERGSTIK                              |  | Spec ref     |         |              |
|                    |             |          | title BERGSTIK® II HDR. D/R<br>.100 POL. SELF-RET    |  | dwg no 69197 |         | Rev. BX      |
|                    |             |          | catalog no   |  | CUSTOMER     |         | sheet 2 of 4 |

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STATUS Released 4 Printed: Apr 20, 2011

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| PRODUCT NUMBER | SIZE | TOTAL PIN LENGTH |              | TAIL LENGTH   |              | MATING LENGTH |              | WIRE CODE | POLARIZED POSITIONS  | PACKAGING | NOTES  | LEAD FREE WIRE CODE | LEAD FREE WIRE CODE |
|----------------|------|------------------|--------------|---------------|--------------|---------------|--------------|-----------|--|-----------|--------|---------------------|---------------------|
|                |      | DIM F ENGLISH    | DIM F METRIC | DIM G ENGLISH | DIM G METRIC | DIM H ENGLISH | DIM H METRIC |           |  |           |        |                     |                     |
| 69197-028      | 2x4  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-3  | POLY BAGS | -      | 2                   | NOTE 3, 4           |
| 69197-029H     | 2x4  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-2  | POLY BAGS | -      | 2                   |                     |
| 69197-030H     | 2x13 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-1  | POLY BAGS | -      | 2                   |                     |
| 69197-031H     | 2x3  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-2  | POLY BAGS | -      | 2                   |                     |
| 69197-032      | 2x20 | 0.460            | 11.68        | 0.120         | 3.05         | 0.240         | 6.10         | 2         | A-11   | POLY BAGS | NOTE 2 | 2                   |                     |
| 69197-033H     | 2X10 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-1  | POLY BAGS | -      | 2                   |                     |
| 69197-034H     | 2x15 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-1  | POLY BAGS | -      | 2                   |                     |
| 69197-035H     | 2x8  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-7  | POLY BAGS | -      | 2                   |                     |
| 69197-036H     | 2x14 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 1         | A-5&10 B-5&10  | POLY BAGS | -      | 1                   |                     |
| 69197-037H     | 2x13 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-7  | POLY BAGS | -      | 2                   |                     |
| 69197-038H     | 2x15 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-14   | POLY BAGS | -      | 2                   |                     |
| 69197-039H     | 2x17 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-12   | POLY BAGS | -      | 2                   |                     |
| 69197-040H     | 2x20 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 1         | B-3  | POLY BAGS | -      | 1                   |                     |
| 69197-041H     | 2x5  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-5  | POLY BAGS | -      | 2                   |                     |
| 69197-042H     | 2x5  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-4 B-2  | POLY BAGS | -      | 2                   |                     |
| 69197-043H     | 2x5  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 4         | A-3&4 B-3&4  | POLY BAGS | -      | 4LF                 |                     |
| 69197-044H     | 2x17 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-2  | POLY BAGS | -      | 2                   |                     |
| 69197-045H     | 2x13 | 0.425            | 10.80        | 0.120         | 3.05         | 0.205         | 5.21         | 4         | B-1  | POLY BAGS | -      | 4                   |                     |
| 69197-046H     | 2x5  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-3  | POLY BAGS | -      | 2                   |                     |
| 69197-047H     | 2x7  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-2  | POLY BAGS | -      | 2                   |                     |
| 69197-048H     | 2x6  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-4  | POLY BAGS | -      | 2                   |                     |
| 69197-049H     | 2x22 | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 1         | A-2,3,5,6,8,9,11,12,14,15,17,18,20,21<br>B-2,3,5,6,8,9,11,12,14,15,17,18,20,21 | POLY BAGS | -      | 1                   |                     |
| 69197-050H     | 2x14 | 0.425            | 10.80        | 0.120         | 3.05         | 0.205         | 5.21         | 4         | B-14   | POLY BAGS | -      | 4LF                 |                     |
| 69197-051H     | 2x7  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-4  | POLY BAGS | -      | 2                   |                     |
| 69197-052H     | 2x7  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | B-3  | POLY BAGS | -      | 2                   |                     |
| 69197-053H     | 2x7  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-1  | POLY BAGS | -      | 2                   |                     |
| 69197-054H     | 2x9  | 0.450            | 11.43        | 0.120         | 3.05         | 0.230         | 5.84         | 2         | A-3 & B-4  | POLY BAGS | -      | 2                   |                     |

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|--------------------|--------------|--|--------------------------------|---------------------------------------|--------------|
| www.fciconnect.com |              | surface ISO 1302 <input checked="" type="checkbox"/> | tolerance std ISO 406 ISO 1101 | projection                            | INCH/MM      |
|                    |              | TOLERANCES UNLESS OTHERWISE SPECIFIED                |                                |                                       |              |
| Dr                 | T. BREWBAKER | 12/28/94   | ANGULAR                        | LINEAR                                | size A4      |
| Eng                | T. HANNA     | 12/28/94   |                                |                                       |              |
| Chr                | T. HANNA     | 12/28/94   | 0° ±2°                         | 0.X ±0.3<br>0.XX ±0.15<br>0.XXX ±0.05 | Scale 1.000  |
| Appr               | T. HANNA     | 12/28/94   | Product family BERGSTIK        |                                       | ECN N11-0118 |
| title              |              |  | BERGSTIK® II HDR. D/R          |                                       | dwg no 69197 |
|                    |              |  | .100 POL. SELF-RET             |                                       |              |
| catalog no         |              |  | CUSTOMER                       |                                       | Rev. BX      |
|                    |              |  | sheet 3 of 4                   |                                       |              |

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| PRODUCT NUMBER | SIZE | TOTAL PIN LENGTH |        | TAIL LENGTH |        | MATING LENGTH |        | WIRE CODE | POLARIZED POSITIONS                                      | PACKAGING | NOTES  | LEAD FREE WIRE CODE | LEAD FREE OPTION |
|----------------|------|------------------|--------|-------------|--------|---------------|--------|-----------|--|-----------|--------|---------------------|------------------|
|                |      | ENGLISH          | METRIC | ENGLISH     | METRIC | ENGLISH       | METRIC |           |  |           |        |                     |                  |
| 69197-055H     | 2x20 | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-13,A-14,B-14   | POLY BAGS | -      | 2                   | NOTE 3, 4        |
| 69197-056H     | 2x7  | 0.415            | 10.54  | 0.085       | 2.16   | 0.230         | 5.84   | 1         | A-5  | POLY BAGS | -      | 1                   |                  |
| 69197-057H     | 2x20 | 0.780            | 19.81  | 0.120       | 3.05   | 0.560         | 14.22  | 1         | A-4.5.6.15.16.17,B-4.5.6.15.16.17                        | POLY BAGS | -      | 1                   |                  |
| 69197-058H     | 2x17 | 0.470            | 11.94  | 0.120       | 3.05   | 0.250         | 6.35   | 4         | A-2.4.6, B-2.4.6   | POLY BAGS | NOTE 2 | 4LF                 |                  |
| 69197-059H     | 2x7  | 0.676            | 17.17  | 0.125       | 3.18   | 0.451         | 11.46  | 2         | A & B - 2.3,5,6  | POLY BAGS | -      | 2                   |                  |
| 69197-060H     | 2x9  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | B-7  | POLY BAGS | -      | 2                   |                  |
| 69197-061H     | 2x8  | 0.425            | 10.79  | 0.095       | 7.41   | 0.230         | 5.84   | 2         | B-5, B-7   | POLY BAGS | -      | 2                   |                  |
| 69197-062H     | 2x20 | 0.630            | 16.00  | 0.125       | 3.18   | 0.407         | 10.84  | 1         | A-2.3.5.6.7.14.15.16.18.19<br>B-2.3.5.6.7.14.15.16.18.19 | POLY BAGS | -      | 1                   |                  |
| 69197-063H     | 2x5  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | B-1  | POLY BAGS | -      | 2                   |                  |
| 69197-064H     | 2x5  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | A-5  | POLY BAGS | -      | 2                   |                  |
| 69197-065H     | 2x5  | 0.450            | 11.43  | 0.120       | 3.05   | 0.230         | 5.84   | 2         | B-4  | POLY BAGS | -      | 2                   | NOTE 3, 4        |

| PIN PLATING CODES |  |
|-------------------|--|
| 1                 | 30u"/0.76u MIN (SEE NOTE 6) OVER 50u"/1.27u MIN Ni     |
| 2                 | 15u"/0.38u MIN (SEE NOTE 6) OVER 50u"/1.27u MIN Ni     |
| 4                 | 100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 7) |
| 4HLF              |  |

|                    |             |          |   |                                   |   |         |            |                |
|--------------------|-------------|----------|---|-----------------------------------|---|---------|------------|----------------|
| www.fciconnect.com |             |          | surface<br>ISO 1302 <input checked="" type="checkbox"/> | tolerance std<br>ISO 406 ISO 1101 | projection<br>                              | INCH/MM |            |                |
|                    |             |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                   |                                   |   |         |            |                |
| Dr                 | T.BREWBAKER | 12/28/94 | ANGULAR   | LINEAR                            | 0.X   | ±0.3    | size<br>A4 | Scale<br>1.000 |
| Eng                | T. HANNA    | 12/28/94 |   |                                   | 0.XX  | ±0.15   |            |                |
| Chr                | T. HANNA    | 12/28/94 | 0°  | ±2°                               | 0.XXX                                       | ±0.05   | ECN        | N11-0118       |
| Appr               | T. HANNA    | 12/28/94 | Product family  |                                   | BERGSTIK                                    |         | Spec ref   |                |
|                    |             |          | title   |                                   | BERGSTIK® II HDR. D/R<br>.100 POL. SELF-RET |         | dwg no     | 69197          |
|                    |             |          | catalog no  |                                   | CUSTOMER                                    |         | Rev.       | BX             |
|                    |             |          |   |                                   | sheet 4 of 4                                |         |            |                |

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