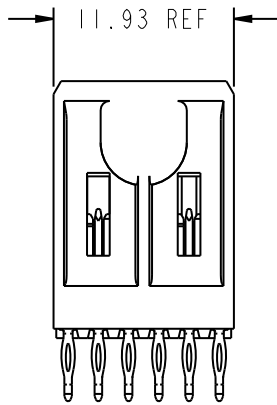
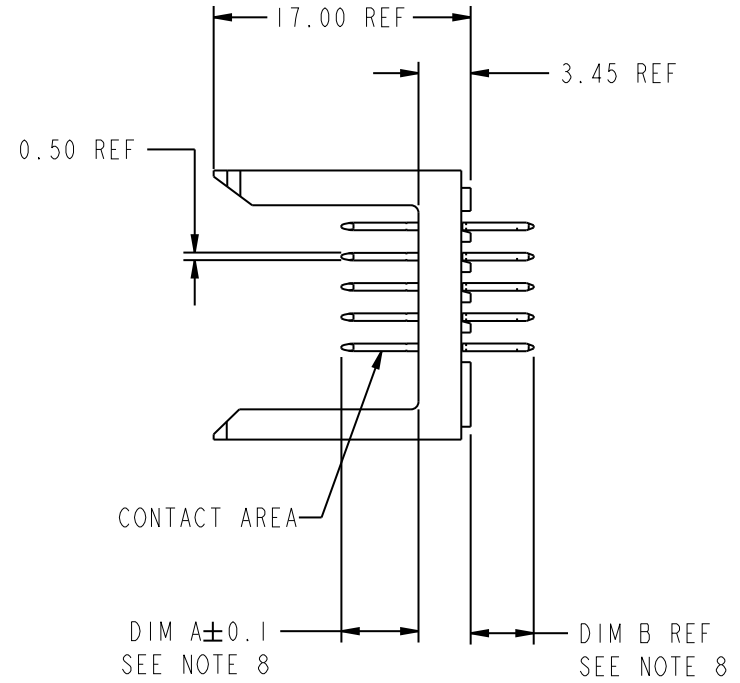
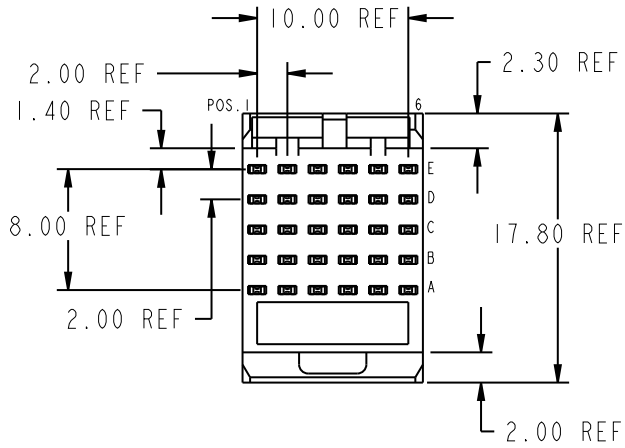


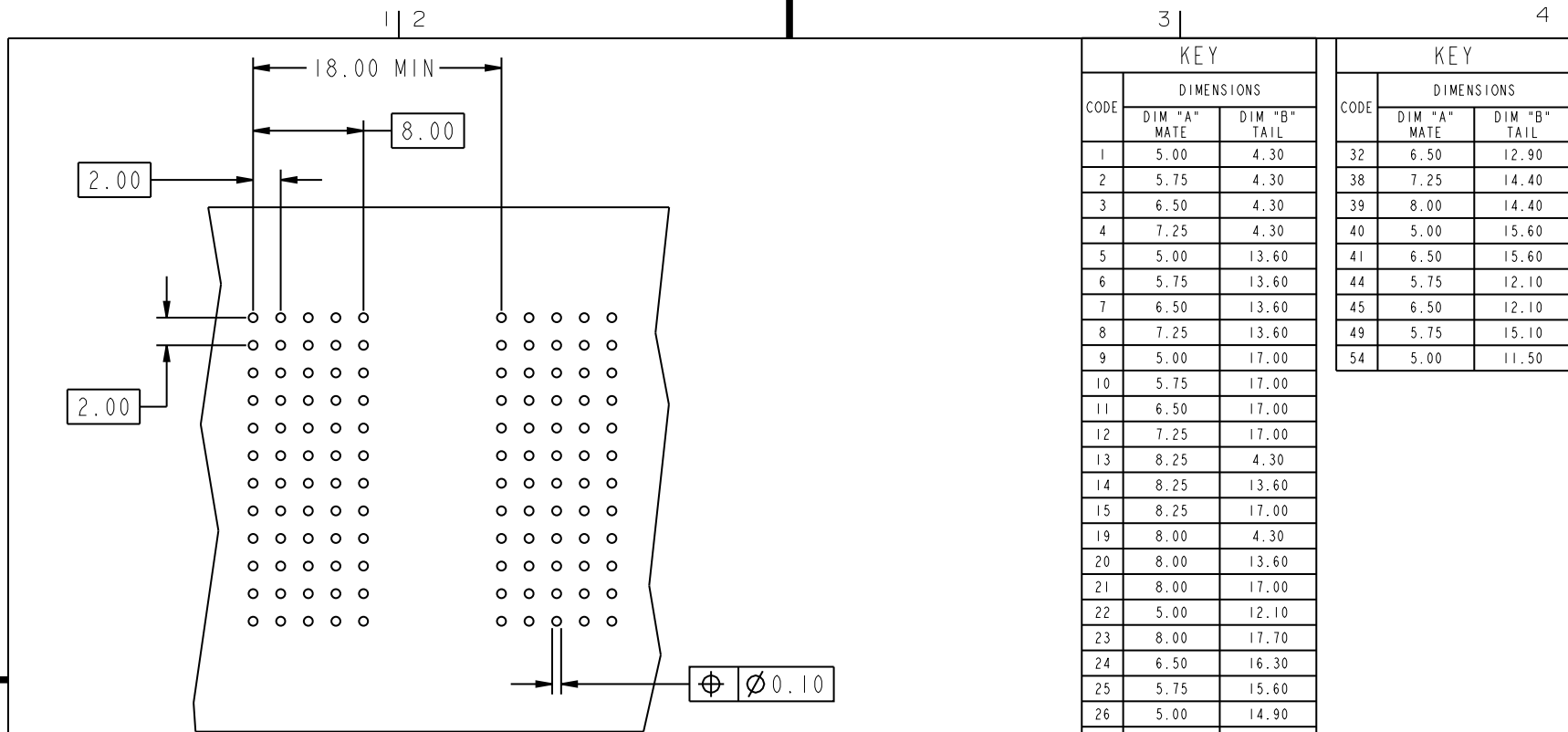
PRODUCT NUMBER  
89025-XYX  
89025-XYXLF



|             |                |     |            |                                       |            |          |        |            |        |  |        |
|-------------|----------------|-----|------------|---------------------------------------|------------|----------|--------|------------|--------|--|--------|
| mat'l code  |                |     |            | tolerances unless otherwise specified |            |          |        | CUSTOMER   |        | FCJ<br>www.fciconnect.com                      |        |
| ltr         | ecn no.        | dr  | date       | linear                                | 0.X ±0.3   |          |        | COPY       |        | title  |        |
| CP          | V06-0573       | DCH | 2006-06-14 |                                       | 0.XX ±0.13 |          |        | projection |        | METRAL SIGNAL HEADER<br>1 MOD, 5 ROW PRESS-FIT |        |
| CR          | DG09-0256      | TER | 2009-08-19 |                                       | .XXX ±.051 |          |        |            |        |  |        |
| -           | -              | -   | -          | angles                                | 0° ±2°     |          |        |            |        | product family METRAL code                     |        |
| CK          | V03-0031       | TAB | 02/08/03   | dr                                    | T.BRUNGARD | 11/19/99 | MM     |            | size   |  | 213    |
| CL          | V03-1321       | DAI | 01/15/04   | enrg                                  | M.STRAWSER | 11/19/99 | ← MM → |            | dwg no |  | 1 of 8 |
| CM          | V04-0459       | LP  | 5/25/04    | chr                                   | M.STRAWSER | 11/19/99 | scale  |            | A      |  | 89025  |
| CN          | V05-0030       | DAI | 02/10/05   | appd                                  | M.STRAWSER | 02/29/00 | 2:1    |            |        |  |        |
| sheet index | revision sheet | CR  | CR         | CR                                    | CR         | CR       | CR     | CR         | CR     | CR   | CR     |
|             |                | 1   | 2          | 3                                     | 4          | 5        | 6      | 7          | 8      |  |        |

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REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE  
SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

| KEY  |              |              |
|------|--------------|--------------|
| CODE | DIMENSIONS   |              |
|      | DIM "A" MATE | DIM "B" TAIL |
| 1    | 5.00         | 4.30         |
| 2    | 5.75         | 4.30         |
| 3    | 6.50         | 4.30         |
| 4    | 7.25         | 4.30         |
| 5    | 5.00         | 13.60        |
| 6    | 5.75         | 13.60        |
| 7    | 6.50         | 13.60        |
| 8    | 7.25         | 13.60        |
| 9    | 5.00         | 17.00        |
| 10   | 5.75         | 17.00        |
| 11   | 6.50         | 17.00        |
| 12   | 7.25         | 17.00        |
| 13   | 8.25         | 4.30         |
| 14   | 8.25         | 13.60        |
| 15   | 8.25         | 17.00        |
| 19   | 8.00         | 4.30         |
| 20   | 8.00         | 13.60        |
| 21   | 8.00         | 17.00        |
| 22   | 5.00         | 12.10        |
| 23   | 8.00         | 17.70        |
| 24   | 6.50         | 16.30        |
| 25   | 5.75         | 15.60        |
| 26   | 5.00         | 14.90        |
| 27   | 5.75         | 12.40        |
| 29   | 8.00         | 14.60        |

| KEY  |              |              |
|------|--------------|--------------|
| CODE | DIMENSIONS   |              |
|      | DIM "A" MATE | DIM "B" TAIL |
| 32   | 6.50         | 12.90        |
| 38   | 7.25         | 14.40        |
| 39   | 8.00         | 14.40        |
| 40   | 5.00         | 15.60        |
| 41   | 6.50         | 15.60        |
| 44   | 5.75         | 12.10        |
| 45   | 6.50         | 12.10        |
| 49   | 5.75         | 15.10        |
| 54   | 5.00         | 11.50        |

|             |                |      |            |                                       |            |            |        |                           |  |
|-------------|----------------|------|------------|---------------------------------------|------------|------------|--------|---------------------------|--|
| mat'l code  |                |      |            | tolerances unless otherwise specified |            | CUSTOMER   |        | FCI<br>www.fciconnect.com |  |
| ltr         | ecr no.        | dr   | date       | linear                                | 0.X ±0.3   | projection | COPY   | title                     | METRAL SIGNAL HEADER<br>1 MOD, 5 ROW PRESS-FIT |
| CR          |                |      |            |                                       | 0.XX ±0.13 |            |        |                           |  |
|             |                |      |            |                                       | .XXX ±.051 |            |        |                           |  |
|             |                |      |            | angles                                | 0° ±2°     | MM         | scale  | product family            | METRAL   |
|             |                | dr   | T.BRUNGARD | 11/19/99                              |            |            |        |                           |  |
|             |                | enr  | M.STRAWSER | 11/19/99                              |            |            |        |                           |  |
|             |                | chr  | M.STRAWSER | 11/19/99                              | A          | size       | dwg no | code                      | 213  |
|             |                | appd | M.STRAWSER | 02/29/00                              |            |            |        |                           |  |
| sheet index | revision sheet |      |            |                                       |            |            |        |                           |  |
|             |                |      |            |                                       |            |            |        | cage code                 | 22526  |



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| METRAL P/N                                      |  | CONTACT CODE MOD. I |    |    |    |    |    | METRAL P/N |   | CONTACT CODE MOD. I |     |    |    |    |    | METRAL P/N |    | CONTACT CODE MOD. I                             |  |     |    |    |    | METRAL P/N |    | CONTACT CODE MOD. I |   |  |     |    |    |    |    |    |    |   |  |     |    |    |    |   |    |    |
|---|--|---------------------|----|----|----|----|----|------------|---|---------------------|-----|----|----|----|----|------------|----|---|--|-----|----|----|----|------------|----|---------------------|---|--|-----|----|----|----|----|----|----|---|--|-----|----|----|----|---|----|----|
|   |  | ROW                 | 1  | 2  | 3  | 4  | 5  | 6          |   |                     | ROW | 1  | 2  | 3  | 4  | 5          | 6  |   |  | ROW | 1  | 2  | 3  | 4          | 5  | 6                   |   |  | ROW | 1  | 2  | 3  | 4  | 5  | 6  |   |  | ROW | 1  | 2  | 3  | 4 | 5  | 6  |
| 89025-X01<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 10 | 10 | 10 | 10 | 10 | 10         | 89025-X05<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |                     | E   | 26 | 12 | 12 | 12 | 12         | 23 | 89025-X09<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 21 | 21 | 11 | 11         | 10 | 11                  | 89025-X13<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 10 | 10 | 10 | 10 | 10 | 10 | 89025-X17<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 2  | 2  | 2  | 2 | 2  | 2  |
|   |  | D                   | 10 | 10 | 10 | 10 | 10 | 10         |   |                     | D   | 26 | 12 | 12 | 12 | 12         | 23 |   |  | D   | 21 | 21 | 11 | 11         | 11 | 11                  |   |  | D   | 9  | 9  | 9  | 9  | 9  | D  |   |  | 2   | 2  | 2  | 2  | 2 | 2  |    |
|   |  | C                   | 9  | 9  | 9  | 9  | 9  | 9          |   |                     | C   | 23 | 12 | 12 | 12 | 12         | 23 |   |  | C   | 21 | 21 | 11 | 11         | 11 | 11                  |   |  | C   | 10 | 10 | 10 | 10 | 10 | C  |   |  | 4   | 4  | 4  | 4  | 4 | 4  |    |
|   |  | B                   | 10 | 10 | 10 | 10 | 10 | 10         |   |                     | B   | 24 | 12 | 12 | 12 | 12         | 23 |   |  | B   | 21 | 21 | 11 | 11         | 11 | 11                  |   |  | B   | 10 | 10 | 10 | 10 | 10 | B  |   |  | 2   | 2  | 2  | 2  | 2 | 1  |    |
|   |  | A                   | 3  | 3  | 3  | 3  | 3  | 3          |   |                     | A   | 24 | 12 | 12 | 12 | 12         | 23 |   |  | A   | 21 | 21 | 11 | 11         | 11 | 11                  |   |  | A   | 2  | 2  | 2  | 2  | 2  | A  |   |  | 2   | 2  | 2  | 2  | 2 | 2  |    |
| 89025-X02<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 2  | 2  | 2  | 3  | 3  | 2          | 89025-X06<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |                     | E   | 25 | 25 | 25 | 25 | 25         | 25 | 89025-X10<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 3  | 19 | 3  | 3          | 19 | 3                   | 89025-X14<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 25 | 25 | 25 | 25 | 25 | 25 | 89025-X18<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 6  | 6  | 6  | 6 | 6  | 6  |
|   |  | D                   | 2  | 2  | 2  | 3  | 2  | 2          |   |                     | D   | 25 | 25 | 25 | 25 | 25         | D  |   |  | 19  | 3  | 3  | 19 | 3          | 3  | D                   |   |  | 25  | 25 | 25 | 25 | 25 | D  | 6  |   |  | 6   | 6  | 6  | 6  | 6 |    |    |
|   |  | C                   | 2  | 1  | 2  | 3  | 3  | 2          |   |                     | C   | 25 | 25 | 25 | 25 | 25         | C  |   |  | 3   | 1  | 19 | 3  | 3          | 19 | C                   |   |  | 25  | 25 | 25 | 25 | 25 | C  | 8  |   |  | 8   | 8  | 8  | 8  | 8 |    |    |
|   |  | B                   | 2  | 2  | 2  | 3  | 2  | 2          |   |                     | B   | 25 | 25 | 25 | 25 | 25         | B  |   |  | 3   | 19 | 3  | 3  | 19         | 3  | B                   |   |  | 25  | 25 | 25 | 25 | 25 | B  | 6  |   |  | 6   | 6  | 6  | 6  | 5 |    |    |
|   |  | A                   | 2  | 2  | 2  | 3  | 3  | 2          |   |                     | A   | 25 | 25 | 25 | 25 | 25         | A  |   |  | 3   | 3  | 19 | 3  | 3          | A  | 2                   |   |  | 2   | 2  | 2  | 2  | A  | 6  | 6  |   |  | 6   | 6  | 6  | 6  |   |    |    |
| 89025-X03<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 2  | 2  | 2  | 3  | 2  | 2          | 89025-X07<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |                     | E   | 2  | 2  | 2  | 2  | 2          | 2  | 89025-X11<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 10 | 10 | 10 | 10         | 10 | 10                  | 89025-X15<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 3  | 3  | 19 | 19 | 3  | 3  | 89025-X19<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 19 | 19 | 19 | 1 | 1  | 1  |
|   |  | D                   | 2  | 2  | 2  | 3  | 2  | 2          |   |                     | D   | 6  | 6  | 6  | 6  | 6          | D  |   |  | 10  | 10 | 10 | 10 | 10         | D  | 3                   |   |  | 3   | 19 | 19 | 3  | 3  | D  | 3  |   |  | 3   | 3  | 3  | 3  | 3 |    |    |
|   |  | C                   | 2  | 1  | 2  | 3  | 2  | 2          |   |                     | C   | 6  | 6  | 6  | 6  | 6          | C  |   |  | 10  | 10 | 10 | 10 | 10         | C  | 3                   |   |  | 3   | 19 | 19 | 3  | 3  | C  | 3  |   |  | 3   | 3  | 3  | 3  | 3 |    |    |
|   |  | B                   | 2  | 2  | 2  | 3  | 2  | 2          |   |                     | B   | 6  | 6  | 6  | 6  | 6          | B  |   |  | 10  | 10 | 10 | 10 | 10         | B  | 3                   |   |  | 3   | 19 | 19 | 3  | 3  | B  | 3  |   |  | 3   | 3  | 3  | 3  | 3 |    |    |
|   |  | A                   | 2  | 2  | 2  | 3  | 2  | 2          |   |                     | A   | 6  | 6  | 6  | 6  | 6          | A  |   |  | 2   | 2  | 2  | 2  | 2          | A  | 3                   |   |  | 3   | 19 | 19 | 3  | 3  | A  | 3  |   |  | 3   | 3  | 3  | 3  | 3 |    |    |
| 89025-X04<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 12 | 25 | 23 | 23 | 23 | 25         | 89025-X08<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |                     | E   | 4  | 2  | 19 | 19 | 19         | 2  | 89025-X12<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 10 | 10 | 10 | 10         | 10 | 10                  | 89025-X16<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 3  | 3  | 19 | 19 | 3  | 4  | 89025-X20<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E   | 1  | 4  | 4  | 4 | 4  | 19 |
|   |  | D                   | 12 | 25 | 23 | 23 | 23 | 25         |   |                     | D   | 4  | 2  | 19 | 19 | 19         | 2  |   |  | D   | 9  | 9  | 9  | 9          | 9  | D                   |   |  | 3   | 3  | 19 | 19 | 3  | 4  | D  |   |  | 1   | 4  | 4  | 4  | 4 | 19 |    |
|   |  | C                   | 12 | 25 | 23 | 23 | 23 | 25         |   |                     | C   | 4  | 2  | 19 | 19 | 19         | 2  |   |  | C   | 10 | 10 | 10 | 10         | 10 | C                   |   |  | 3   | 3  | 19 | 19 | 3  | 4  | C  |   |  | 19  | 4  | 4  | 4  | 4 | 19 |    |
|   |  | B                   | 12 | 25 | 23 | 23 | 23 | 25         |   |                     | B   | 4  | 2  | 19 | 19 | 19         | 2  |   |  | B   | 10 | 10 | 10 | 10         | 10 | B                   |   |  | 3   | 3  | 19 | 19 | 3  | 4  | B  |   |  | 3   | 4  | 4  | 4  | 4 | 19 |    |
|   |  | A                   | 12 | 25 | 23 | 23 | 23 | 25         |   |                     | A   | 4  | 2  | 19 | 19 | 19         | 2  |   |  | A   | 3  | 3  | 3  | 3          | 3  | A                   |   |  | 3   | 3  | 19 | 19 | 3  | 4  | A  |   |  | 3   | 4  | 4  | 4  | 4 | 19 |    |

|            |          |    |      |                                       |            |          |  |          |     |                      |       |                        |       |  |
|------------|----------|----|------|---------------------------------------|------------|----------|--|----------|-----|----------------------|-------|------------------------|-------|--|
| mat'l code |          |    |      | tolerances unless otherwise specified |            |          |  | CUSTOMER |     | FCJ                  |       | www.fcjconnect.com     |       |  |
| ltr        | ecr no.  | dr | date | linear                                | 0.X ±0.3   |          |  | COPY     |     | projection           |       | title                  |       |  |
| CR         |          |    |      | angles                                | 0.XX ±0.13 |          |  | MM       |     | METRAL SIGNAL HEADER |       | 1 MOD, 5 ROW PRESS-FIT |       |  |
|            |          |    |      | dr                                    | .XXX ±.051 |          |  | ← MM →   |     | product family       |       | METRAL code            |       |  |
|            |          |    |      | engr                                  | 0° ±2°     |          |  | scale    |     | size                 |       | dwg no                 |       |  |
|            |          |    |      | chr                                   | T.BRUNGARD | 11/19/99 |  |          | 1:1 |                      | A     |                        | 213   |  |
|            |          |    |      | appd                                  | M.STRAWSER | 11/19/99 |  |          |     |                      | 89025 |                        | sheet |  |
| sheet      | revision |    |      |                                       | M.STRAWSER | 02/29/00 |  |          |     |                      |       |                        | 3     |  |
| index      | sheet    |    |      |                                       |            |          |  |          |     |                      |       |                        |       |  |



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| METRAL P/N                                      |   | ROW | CONTACT CODE MOD. I |    |    |    |    |   |
|---|---|-----|---------------------|----|----|----|----|---|
|   |   |     | 1                   | 2  | 3  | 4  | 5  | 6 |
| 89025-X21<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 25  | 25                  | 25 | 25 | 25 | 25 |   |
|   | D | 40  | 40                  | 40 | 40 | 40 | 40 |   |
|   | C | 25  | 25                  | 25 | 25 | 25 | 25 |   |
|   | B | 25  | 25                  | 25 | 25 | 25 | 25 |   |
|   | A | 3   | 3                   | 3  | 3  | 3  | 3  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X22<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 1   | 1                   | 1  | 1  | 1  | 1  |   |
|   | D | 1   | 1                   | 1  | 1  | 1  | 1  |   |
|   | C | 1   | 1                   | 1  | 1  | 1  | 1  |   |
|   | B | 19  | 4                   | 4  | 4  | 4  | 4  |   |
|   | A | 1   | 1                   | 1  | 1  | 1  | 1  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X23<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 2   | -                   | 2  | -  | 2  | -  |   |
|   | D | -   | -                   | -  | -  | -  | -  |   |
|   | C | 2   | -                   | 2  | -  | 2  | -  |   |
|   | B | -   | -                   | -  | -  | -  | -  |   |
|   | A | 2   | -                   | 2  | -  | 2  | -  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X24<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 4   | 2                   | 2  | 2  | 2  | 2  |   |
|   | D | 4   | 2                   | 2  | 2  | 2  | 2  |   |
|   | C | 4   | 2                   | 2  | 2  | 2  | 2  |   |
|   | B | 4   | 2                   | 2  | 2  | 2  | 2  |   |
|   | A | 4   | 2                   | 2  | 2  | 2  | 2  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X25<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | -   | -                   | -  | -  | -  | -  |   |
|   | D | 3   | 3                   | 3  | 3  | 3  | 3  |   |
|   | C | 3   | 3                   | 3  | 3  | 3  | 3  |   |
|   | B | 3   | 3                   | 3  | 3  | 3  | 3  |   |
|   | A | 3   | 3                   | 3  | 3  | 3  | 3  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X26<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | -   | -                   | -  | -  | -  | -  |   |
|   | D | 3   | 3                   | -  | -  | -  | -  |   |
|   | C | 3   | 3                   | -  | -  | -  | -  |   |
|   | B | 3   | 3                   | -  | -  | -  | -  |   |
|   | A | 3   | 3                   | -  | -  | -  | -  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X27<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 32  | 32                  | 32 | 32 | 32 | 32 |   |
|   | D | 32  | 32                  | 32 | 32 | 32 | 32 |   |
|   | C | 32  | 32                  | 32 | 32 | 32 | 32 |   |
|   | B | 32  | 32                  | 32 | 32 | 32 | 32 |   |
|   | A | 32  | 32                  | 32 | 32 | 32 | 32 |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X28<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | -   | -                   | -  | -  | -  | -  |   |
|   | D | 1   | 1                   | 1  | 1  | 1  | 1  |   |
|   | C | 1   | 1                   | 1  | 1  | 1  | 1  |   |
|   | B | 1   | 1                   | 1  | 1  | 1  | 1  |   |
|   | A | 1   | 1                   | 1  | 1  | 1  | 1  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X29<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | -   | -                   | -  | -  | -  | -  |   |
|   | D | 1   | 1                   | -  | -  | -  | -  |   |
|   | C | 1   | 1                   | -  | -  | -  | -  |   |
|   | B | 1   | 1                   | -  | -  | -  | -  |   |
|   | A | 1   | 1                   | -  | -  | -  | -  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X30<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 1   | 4                   | 1  | 1  | 1  | 1  |   |
|   | D | 1   | 1                   | 1  | 1  | 1  | 4  |   |
|   | C | 1   | 1                   | 1  | 4  | 1  | 1  |   |
|   | B | 1   | 4                   | 1  | 1  | 1  | 1  |   |
|   | A | 1   | 1                   | 1  | 1  | 1  | 4  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X31<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 1   | 1                   | 1  | 3  | 1  | 1  |   |
|   | D | 1   | 1                   | 1  | 3  | 1  | 1  |   |
|   | C | 3   | 3                   | 1  | 3  | 1  | 1  |   |
|   | B | 1   | 1                   | 1  | 1  | 1  | 1  |   |
|   | A | 4   | 4                   | 4  | 4  | 4  | 4  |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X32<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 45  | 45                  | 45 | 45 | 45 | 45 |   |
|   | D | 45  | 45                  | 45 | 45 | 45 | 45 |   |
|   | C | 45  | 45                  | 45 | 45 | 45 | 45 |   |
|   | B | 45  | 45                  | 45 | 45 | 45 | 45 |   |
|   | A | 45  | 45                  | 45 | 45 | 45 | 45 |   |
| 2   |   |     |                     |    |    |    |    |   |
| 89025-X33<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 25  | 25                  | 25 | 25 | 25 | 25 |   |
|   | D | 40  | 40                  | 40 | 40 | 40 | 40 |   |
|   | C | 25  | 25                  | 25 | 25 | 25 | 25 |   |
|   | B | 25  | 25                  | 25 | 25 | 25 | 25 |   |
|   | A | 41  | 41                  | 41 | 41 | 41 | 41 |   |
| 3   |   |     |                     |    |    |    |    |   |
| 89025-X34<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 4   | 4                   | 4  | 13 | 13 | 13 |   |
|   | D | 4   | 4                   | 4  | 13 | 13 | 13 |   |
|   | C | 4   | 4                   | 4  | 13 | 13 | 13 |   |
|   | B | 4   | 4                   | 4  | 13 | 13 | 13 |   |
|   | A | 4   | 4                   | 4  | 13 | 13 | 13 |   |
| 3   |   |     |                     |    |    |    |    |   |
| 89025-X35<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 11  | 11                  | 11 | 11 | 11 | 11 |   |
|   | D | 40  | 11                  | 11 | 11 | 11 | 11 |   |
|   | C | 11  | 11                  | 11 | 11 | 11 | 11 |   |
|   | B | 11  | 11                  | 11 | 11 | 11 | 11 |   |
|   | A | 11  | 11                  | 11 | 11 | 11 | 11 |   |
| 3   |   |     |                     |    |    |    |    |   |
| 89025-X36<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 8   | 8                   | 8  | 14 | 14 | 14 |   |
|   | D | 8   | 8                   | 8  | 14 | 14 | 14 |   |
|   | C | 8   | 8                   | 8  | 14 | 14 | 14 |   |
|   | B | 8   | 8                   | 8  | 14 | 14 | 14 |   |
|   | A | 8   | 8                   | 8  | 14 | 14 | 14 |   |
| 3   |   |     |                     |    |    |    |    |   |
| 89025-X37<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 11  | 11                  | 11 | 11 | 11 | 11 |   |
|   | D | 11  | 11                  | 40 | 11 | 11 | 11 |   |
|   | C | 11  | 11                  | 11 | 11 | 11 | 11 |   |
|   | B | 11  | 11                  | 11 | 11 | 11 | 11 |   |
|   | A | 11  | 11                  | 11 | 11 | 11 | 11 |   |
| 3   |   |     |                     |    |    |    |    |   |
| 89025-X38<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 49  | 49                  | 49 | 49 | 49 | 49 |   |
|   | D | 49  | 49                  | 49 | 49 | 49 | 49 |   |
|   | C | 49  | 49                  | 49 | 49 | 49 | 49 |   |
|   | B | 49  | 49                  | 49 | 49 | 49 | 49 |   |
|   | A | 49  | 49                  | 49 | 49 | 49 | 49 |   |
| 3   |   |     |                     |    |    |    |    |   |
| 89025-X39<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 44  | 44                  | 44 | 44 | 44 | 44 |   |
|   | D | 44  | 44                  | 44 | 44 | 44 | 44 |   |
|   | C | 44  | 44                  | 44 | 44 | 44 | 44 |   |
|   | B | 44  | 44                  | 44 | 44 | 44 | 44 |   |
|   | A | 44  | 44                  | 44 | 44 | 44 | 44 |   |
| 3   |   |     |                     |    |    |    |    |   |
| 89025-X40<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 12  | 12                  | 12 | 15 | 15 | 15 |   |
|   | D | 12  | 12                  | 12 | 15 | 15 | 15 |   |
|   | C | 12  | 12                  | 12 | 15 | 15 | 15 |   |
|   | B | 12  | 12                  | 12 | 15 | 15 | 15 |   |
|   | A | 12  | 12                  | 12 | 15 | 15 | 15 |   |
| 3   |   |     |                     |    |    |    |    |   |

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| CR          |                |    |      | angles                                | 0.XX ±0.13          | projection    |  | title<br><b>METRAL SIGNAL HEADER</b><br>1 MOD, 5 ROW PRESS-FIT |  |
|             |                |    |      |                                       | .XXX ±.051          |               |  |  |  |
|             |                |    |      | dr                                    | 0° ±2°              |               |  | product family<br>METRAL                                       |  |
|             |                |    |      | engr                                  | T.BRUNGARD 11/19/99 | scale<br>1:1  |  |  |  |
|             |                |    |      | chr                                   | M.STRAWSER 11/19/99 | size<br>A     |  | sheet<br>4   |  |
|             |                |    |      | appd                                  | M.STRAWSER 02/29/00 | size<br>89025 |  |  |  |
| sheet index | revision sheet |    |      |                                       |                     |               |  |  |  |





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|---|-----|---------------------|----|---|---|---|---|-----|---------------------|----|---|---|----|------------|---|---------------------|----|---|---|---|------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|
| METRAL P/N                                      | ROW | CONTACT CODE MOD. I |    |   |   |   | METRAL P/N                                      | ROW | CONTACT CODE MOD. I |    |   |   |    | METRAL P/N | ROW   | CONTACT CODE MOD. I |    |   |   |   | METRAL P/N | ROW | CONTACT CODE MOD. I                             |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
|   |     | 1                   | 2  | 3 | 4 | 5 |   |     | 6                   | 1  | 2 | 3 | 4  |            |   | 5                   | 6  | 1 | 2 | 3 |            |     | 4   | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6   |   |   |   |   |    |   |   |
| 89025-X61<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                   | 19 | 3 | 3 | 3 | 89025-X65<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                   | 19 | 3 | 3 | 3  | 19         | 89025-X69<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E                   | 14 | 6 | 8 | 8 | 8          | 8   | 89025-X73<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | - | 2 | - | 2 | - | 2 | 89025-X77<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 7 | 7 | 5 | 20 | 7 | 7 |
|   | D   | 3                   | 19 | 3 | 3 | 3 |   | D   | 3                   | 3  | 3 | 3 | 19 | D          |   | 14                  | 7  | 8 | 8 | 8 | 8          | D   |   | 2 | - | 2 | - | 2 | - | D |   | 7 | 7 | 7 | 7 | 7  | 7 |   |
|   | C   | 3                   | 19 | 3 | 3 | 3 |   | C   | 3                   | 3  | 3 | 3 | 19 | C          |   | 14                  | 7  | 8 | 8 | 8 | 8          | C   |   | - | 2 | - | 2 | - | 2 | C |   | 7 | 7 | 7 | 7 | 7  | 7 |   |
|   | B   | 19                  | 19 | 3 | 3 | 3 |   | B   | 3                   | 3  | 3 | 3 | 19 | B          |   | 14                  | 7  | 8 | 8 | 8 | 8          | B   |   | 2 | - | 2 | - | 2 | - | B |   | 7 | 7 | 7 | 7 | 7  | 7 |   |
|   | A   | 19                  | 19 | 3 | 3 | 3 |   | A   | 3                   | 3  | 3 | 3 | 19 | A          |   | 14                  | 7  | 5 | 8 | 8 | 8          | A   |   | - | 2 | - | 2 | - | 2 | A |   | 7 | 7 | 7 | 7 | 7  | 7 |   |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 89025-X62<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 1 | - | 1 | - | 1 | 89025-X66<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 3 | 1 | 1 | 1 | 1 | 1 | 89025-X70<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E  | 13 | 2 | 4 | 4 | 4 | 4 | 89025-X74<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | - | - | - | - | - | - | 89025-X78<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E  | 54 | 54 | 39 | 54 | 54 | 54 |
|   | D | - | 1 | - | 1 | - |   | D | 3 | 1 | 1 | 1 | 1 | D |   | 13 | 3  | 4 | 4 | 4 | 4 | D |   | 2 | - | 2 | - | 2 | - | D |   | 54 | 54 | 39 | 54 | 54 | 54 |    |
|   | C | 1 | - | 1 | - | 1 |   | C | 3 | 1 | 1 | 1 | 1 | C |   | 13 | 3  | 4 | 4 | 4 | 4 | C |   | - | 2 | - | 2 | - | 2 | C |   | 54 | 54 | 39 | 54 | 54 | 54 |    |
|   | B | - | 1 | - | 1 | - |   | B | 3 | 1 | 1 | 1 | 1 | B |   | 13 | 3  | 4 | 4 | 4 | 4 | B |   | 2 | - | 2 | - | 2 | - | B |   | 54 | 54 | 39 | 54 | 54 | 54 |    |
|   | A | 1 | - | 1 | - | 1 |   | A | 3 | 1 | 1 | 1 | 1 | A |   | 13 | 3  | 1 | 4 | 4 | 4 | A |   | - | 2 | - | 2 | - | 2 | A |   | 54 | 54 | 39 | 54 | 54 | 54 |    |

|   |   |   |    |    |    |    |    |   |   |    |    |    |    |    |    |   |   |    |    |    |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|----|----|----|----|----|---|---|----|----|----|----|----|----|---|---|----|----|----|---|---|---|---|---|----|----|----|----|----|----|
| 89025-X63<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 8 | 27 | 29 | 29 | 29 | 27 | 89025-X67<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 20 | 20 | 20 | 20 | 20 | 20 | 89025-X71<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 20 | 20 | 20 | 8 | 8 | 8 | 89025-X75<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 54 | 54 | 54 | 54 | 39 | 54 |
|   | D | 8 | 27 | 29 | 29 | 29 | 27 |   | D | 5  | 5  | 20 | 20 | 20 | 20 |   | D | 20 | 20 | 20 | 8 | 8 | 8 |   | D | 54 | 54 | 54 | 54 | 39 | 54 |
|   | C | 8 | 27 | 29 | 29 | 29 | 27 |   | C | 5  | 5  | 20 | 20 | 20 | 20 |   | C | 20 | 20 | 20 | 8 | 8 | 8 |   | C | 54 | 54 | 54 | 54 | 39 | 54 |
|   | B | 8 | 27 | 29 | 29 | 29 | 27 |   | B | 5  | 5  | 20 | 20 | 20 | 20 |   | B | 20 | 20 | 20 | 8 | 8 | 8 |   | B | 54 | 54 | 54 | 54 | 39 | 54 |
|   | A | 8 | 27 | 29 | 29 | 29 | 27 |   | A | 5  | 5  | 20 | 20 | 20 | 20 |   | A | 20 | 20 | 20 | 8 | 8 | 8 |   | A | 54 | 54 | 54 | 54 | 39 | 54 |

|   |   |    |   |    |   |    |   |   |   |    |    |    |    |    |    |   |   |    |    |    |   |   |   |   |   |   |   |   |    |   |   |
|---|---|----|---|----|---|----|---|---|---|----|----|----|----|----|----|---|---|----|----|----|---|---|---|---|---|---|---|---|----|---|---|
| 89025-X64<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 45 | - | 45 | - | 45 | - | 89025-X68<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 21 | 21 | 21 | 21 | 21 | 21 | 89025-X72<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 19 | 19 | 19 | 4 | 4 | 4 | 89025-X76<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 3 | 3 | 1 | 19 | 3 | 3 |
|   | D | 45 | - | 45 | - | 45 | - |   | D | 9  | 9  | 21 | 21 | 21 | 21 |   | D | 19 | 19 | 19 | 4 | 4 | 4 |   | D | 3 | 3 | 3 | 3  | 3 | 3 |
|   | C | -  | - | -  | - | -  | - |   | C | 9  | 9  | 21 | 21 | 21 | 21 |   | C | 19 | 19 | 19 | 4 | 4 | 4 |   | C | 3 | 3 | 3 | 3  | 3 | 3 |
|   | B | 45 | - | 45 | - | 45 | - |   | B | 9  | 9  | 21 | 21 | 21 | 21 |   | B | 19 | 19 | 19 | 4 | 4 | 4 |   | B | 3 | 3 | 3 | 3  | 3 | 3 |
|   | A | 45 | - | 45 | - | 45 | - |   | A | 9  | 9  | 21 | 21 | 21 | 21 |   | A | 19 | 19 | 19 | 4 | 4 | 4 |   | A | 3 | 3 | 3 | 3  | 3 | 3 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89025-X80<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 5 | 5 | 5 | 5 | 5 | 5 | 89025-X80<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 5 | 5 | 5 | 5 | 5 | 5 | 89025-X80<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E | 5 | 5 | 5 | 5 | 5 | 5 |   |
|   | D | 5 | 5 | 5 | 5 | 5 | 5 |   | D | 5 | 5 | 5 | 5 | 5 | 5 |   | D | 5 | 5 | 5 | 5 | 5 | 5 |   |
|   | C | 6 | 6 | 6 | 6 | 6 | 5 |   | 5 | C | 6 | 6 | 6 | 6 | 5 |   | 5 | C | 6 | 6 | 6 | 6 | 5 | 5 |
|   | B | 5 | 5 | 5 | 5 | 5 | 5 |   | 5 | B | 5 | 5 | 5 | 5 | 5 |   | 5 | B | 5 | 5 | 5 | 5 | 5 | 5 |
|   | A | 5 | 5 | 5 | 5 | 5 | 5 |   | 5 | A | 5 | 5 | 5 | 5 | 5 |   | 5 | A | 5 | 5 | 5 | 5 | 5 | 5 |

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| CR          |                |    |      | angles                                | 0.XX ±0.13 |          |     | projection |                | title                |       |
|             |                |    |      |                                       | .XXX ±.051 |          |     |            |                | METRAL SIGNAL HEADER |       |
|             |                |    |      | dr                                    | T.BRUNGARD | 11/19/99 |     |            | product family |                      | code  |
|             |                |    |      | engr                                  | M.STRAWSER | 11/19/99 | MM  |            | METRAL         |                      | 213   |
|             |                |    |      | chr                                   | M.STRAWSER | 11/19/99 |     |            | size           |                      | sheet |
|             |                |    |      | appd                                  | M.STRAWSER | 02/29/00 | 1:1 |            | dwg no         |                      | 6     |
| sheet index | revision sheet |    |      |                                       |            |          |     |            | A              |                      | 89025 |

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|---|--|---------------------|---|---|----|----|---|---|---|---------------------|---|----|---|---|---|------------|---|---|---|---|----|---|---|------------|---|---|---|---|---|----|----|-----|---|---|---|---|---|---|---|-----|---|----|----|----|---|---|---|
| ROW   |  | 1                   | 2 | 3 | 4  | 5  | 6 | ROW   |   | 1                   | 2 | 3  | 4 | 5 | 6 | ROW        |   | 1   | 2 | 3 | 4  | 5 | 6 | ROW        |   | 1   | 2   | 3 | 4 | 5  | 6  | ROW |   | 1 | 2   | 3   | 4 | 5 | 6 | ROW |   | 1  | 2  | 3  | 4 | 5 | 6 |
| 89025-X81<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 2 | 2 | 2  | 2  | 2 | 89025-X85<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E                   | - | -  | - | - | 3 | -          | 89025-X89<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 4 | 2  | 2 | 2 | 2          | 2 | 89025-X93<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 2 | 3  | 2  | 2   | 4 | 4 | 89025-X97<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 3 | 3 | 3   | 3 | -  | 3  |    |   |   |   |
|   |  | D                   | 2 | 2 | 2  | 2  | 2 |   |   | D                   | - | -  | - | - | 3 | -          |   |   | D | 4 | 2  | 2 | 2 | 2          | 2 |   |   | D | 2 | 3  | 2  | 2   | 4 | 4 |   |   | D | 3 | 3 | 3   | 3 | -  | 3  |    |   |   |   |
|   |  | C                   | 2 | 2 | 2  | 2  | 1 | 1   |   |                     | C | -  | - | - | - | -          | -   |   |   | C | 4  | 2 | 2 | 2          | 2 | 2   |   |   | C | 2  | 3  | 2   | 2 | 4 | 4   |   |   | C | 3 | 3   | 3 | 3  | 3  | 3  |   |   |   |
|   |  | B                   | 1 | 1 | 1  | 1  | 1 | 1   |   |                     | B | -  | - | - | - | 3          | -   |   |   | B | 4  | 2 | 2 | 2          | 2 | 2   |   |   | B | 2  | 3  | 2   | 2 | 4 | 4   |   |   | B | 3 | 3   | 3 | 3  | 3  | 3  |   |   |   |
|   |  | A                   | 1 | 1 | 1  | 1  | 1 | 1   |   |                     | A | -  | - | - | 3 | 3          | -   |   |   | A | 4  | 2 | 2 | 2          | 1 | 4   |   |   | A | 2  | 3  | 2   | 2 | 4 | 4   |   |   | A | 3 | 3   | 3 | -  | -  | 3  |   |   |   |
| 89025-X82<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 7 | - | 38 | 38 | - | 7   | 89025-X86<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |                     | E | 19 | 3 | 3 | 3 | 3          | 3   | 89025-X90<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 19 | 3 | 3 | 3          | 2 | 1   | 89025-X94<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 1  | 19 | 3   | 3 | 3 | 3   | 89025-X98<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 4 | 4   | 4 | 19 | 19 | 19 |   |   |   |
|   |  | D                   | 7 | - | 38 | 38 | - | 7   |   |                     | D | 19 | 3 | 3 | 3 | 3          | 1   |   |   | D | 19 | 3 | 3 | 3          | 2 | 1   |   |   | D | 3  | 19 | 3   | 3 | 3 | 3   |   |   | D | 4 | 4   | 4 | 19 | 19 | 19 |   |   |   |
|   |  | C                   | 7 | - | 38 | 38 | - | 7   |   |                     | C | 19 | 3 | 3 | 3 | 3          | 1   |   |   | C | 19 | 3 | 3 | 3          | 2 | 1   |   |   | C | 3  | 19 | 3   | 3 | 3 | 3   |   |   | C | 4 | 4   | 4 | 19 | 19 | 19 |   |   |   |
|   |  | B                   | 7 | - | 38 | 38 | - | 7   |   |                     | B | 19 | 3 | 3 | 3 | 3          | 2   |   |   | B | 19 | 3 | 3 | 3          | 2 | 1   |   |   | B | 19 | 19 | 3   | 3 | 3 | 3   |   |   | B | 4 | 4   | 4 | 19 | 19 | 19 |   |   |   |
|   |  | A                   | 7 | - | 38 | 38 | - | 7   |   |                     | A | 19 | 3 | 3 | 3 | 3          | 3   |   |   | A | 19 | 3 | 3 | 3          | 2 | 1   |   |   | A | 19 | 19 | 3   | 3 | 3 | 3   |   |   | A | 4 | 4   | 4 | 19 | 19 | 19 |   |   |   |
| 89025-X83<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 1 | 1 | 1  | -  | 1 | 1   | 89025-X87<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |                     | E | 2  | 2 | 2 | 2 | 1          | 2   | 89025-X91<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 20 | 7 | 7 | 7          | 6 | 5   | 89025-X95<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 2  | 2  | 2   | 2 | 2 | 2   | 89025-X99<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 8 | 8   | 8 | 20 | 20 | 20 |   |   |   |
|   |  | D                   | 1 | 1 | 1  | -  | 1 | 1   |   |                     | D | 2  | 2 | 2 | 2 | 2          | 2   |   |   | D | 20 | 7 | 7 | 7          | 6 | 5   |   |   | D | 2  | 2  | 2   | 2 | 2 | 2   |   |   | D | 8 | 8   | 8 | 20 | 20 | 20 |   |   |   |
|   |  | C                   | 1 | 1 | 1  | -  | 1 | 1   |   |                     | C | 3  | 3 | 3 | 3 | 3          | 3   |   |   | C | 20 | 7 | 7 | 7          | 6 | 5   |   |   | C | 1  | 2  | 2   | 2 | 2 | 2   |   |   | C | 8 | 8   | 8 | 20 | 20 | 20 |   |   |   |
|   |  | B                   | 1 | 1 | 1  | -  | - | -   |   |                     | B | 2  | 2 | 2 | 2 | 2          | 2   |   |   | B | 20 | 7 | 7 | 7          | 6 | 5   |   |   | B | 2  | 2  | 2   | 2 | 2 | 2   |   |   | B | 8 | 8   | 8 | 20 | 20 | 20 |   |   |   |
|   |  | A                   | 1 | 1 | 1  | 1  | 1 | 1   |   |                     | A | 2  | 2 | 2 | 2 | 2          | 2   |   |   | A | 20 | 7 | 7 | 7          | 6 | 5   |   |   | A | 2  | 2  | 2   | 2 | 2 | 2   |   |   | A | 8 | 8   | 8 | 20 | 20 | 20 |   |   |   |
| 89025-X84<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |  | E                   | 7 | 7 | 7  | 7  | 7 | 7   | 89025-X88<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |                     | E | 2  | 2 | 2 | 2 | 2          | 2   | 89025-X92<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 19 | 4 | 4 | 4          | 4 | 4   | 89025-X96<br>SEE NOTE 10<br>LEAD FREE<br>OPTION |   | E | 3  | 3  | 3   | - | 3 | 3   | A   |   | 3 | 3 | 3   | 3 | 3  | 3  |    |   |   |   |
|   |  | D                   | 7 | 4 | 7  | 7  | 7 | 7   |   |                     | D | 2  | 2 | 2 | 2 | 2          | 2   |   |   | D | 19 | 4 | 4 | 4          | 4 | 4   |   |   | D | 3  | 3  | 3   | - | 3 | 3   |   |   | D | 3 | 3   | 3 | -  | 3  | 3  |   |   |   |
|   |  | C                   | 4 | 7 | 4  | 7  | 7 | 7   |   |                     | C | 4  | 2 | 2 | 2 | 2          | 2   |   |   | C | 19 | 4 | 4 | 4          | 4 | 4   |   |   | C | 3  | 3  | 3   | - | 3 | 3   |   |   | C | 3 | 3   | 3 | -  | 3  | 3  |   |   |   |
|   |  | B                   | 7 | 7 | 4  | 7  | 7 | 7   |   |                     | B | 2  | 2 | 2 | 2 | 2          | 2   |   |   | B | 19 | 4 | 4 | 4          | 4 | 4   |   |   | B | 3  | 3  | 3   | - | - | -   |   |   | B | 3 | 3   | 3 | -  | -  | -  |   |   |   |
|   |  | A                   | 7 | 7 | 7  | 4  | 7 | 7   |   |                     | A | 2  | 2 | 2 | 2 | 2          | 2   |   |   | A | 19 | 4 | 4 | 4          | 4 | 4   |   |   | A | 3  | 3  | 3   | 3 | 3 | 3   |   |   | A | 3 | 3   | 3 | 3  | 3  | 3  |   |   |   |

|            |          |    |      |                                       |            |          |  |            |  |  |  |
|------------|----------|----|------|---------------------------------------|------------|----------|--|------------|--|--|--|
| mat'l code |          |    |      | tolerances unless otherwise specified |            |          |  | CUSTOMER   |  | FCJ  |  |
| ltr        | ecr no.  | dr | date | linear                                | 0.X ±0.3   |          |  | COPY       |  | www.fcjconnect.com                             |  |
| CR         |          |    |      | angles                                | 0.XX ±0.13 |          |  | projection |  | title  |  |
|            |          |    |      |                                       | .XXX ±.051 |          |  |            |  | METRAL SIGNAL HEADER<br>1 MOD, 5 ROW PRESS-FIT |  |
|            |          |    |      | dr                                    | T.BRUNGARD | 11/19/99 |  |            |  | product family                                 |  |
|            |          |    |      | engr                                  | M.STRAWSER | 11/19/99 |  | MM         |  | METRAL   |  |
|            |          |    |      | chr                                   | M.STRAWSER | 11/19/99 |  |            |  | code   |  |
|            |          |    |      | appd                                  | M.STRAWSER | 02/29/00 |  | 1:1        |  | 213  |  |
| sheet      | revision |    |      |                                       |            |          |  | size       |  | sheet  |  |
| index      | sheet    |    |      |                                       |            |          |  | A          |  | 7  |  |
|            |          |    |      |                                       |            |          |  | 89025      |  | cage code                                      |  |
|            |          |    |      |                                       |            |          |  | 22526      |  | 4  |  |

|                |
|----------------|
| PRODUCT NUMBER |
| 89025-XYX      |
| 89025-XYXLF    |

NOTES:


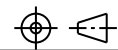

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:  
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:  
55422 -XYX IS SnPb  
55422-XYXLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF

| PLATING IN CONTACT AREA |                                   |            |
|-------------------------|-----------------------------------|------------|
| DASH NUMBER             | PERFORMANCE LEVEL                 | NOTES      |
| -N1YY                   | TELCORDIA CO (NXT)                | -          |
| -N5YY                   | TELCORDIA UE (NXT)                | -          |
| -1YY                    | TELCORDIA CO                      | -          |
| -2YY                    | TELECOM CLASS                     | -          |
| -3YY                    | IEC CLASS I                       | -          |
| -5YY                    | TELCORDIA UE                      | -          |
| -N1YYLF                 | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 9 |
| -N5YYLF                 | TELCORDIA UE (NXT)                | SEE NOTE 9 |
| -1YYLF                  | TELCORDIA CO<br>IEC CLASS I       | SEE NOTE 9 |
| -2YYLF                  | TELECOM CLASS                     | SEE NOTE 9 |
| -5YYLF                  | TELCORDIA UE                      | SEE NOTE 9 |

- PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING (DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1--- AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 89025-X01LF

|             |                |    |      |                                       |            |   |           |  |     |
|-------------|----------------|----|------|---------------------------------------|------------|---|-----------|--|-----|
| mat'l code  |                |    |      | tolerances unless otherwise specified |            | CUSTOMER  |           |  www.fcjconnect.com |     |
| lfr         | ecn no.        | dr | date | linear                                | 0.X ±0.3   | COPY  |           | title METRAL SIGNAL HEADER<br>1 MOD, 5 ROW PRESS-FIT   |     |
| CR          |                |    |      |                                       | 0.XX ±0.13 | projection  |           |  |     |
|             |                |    |      |                                       | .XXX ±.051 |  |           |  |     |
|             |                |    |      | angles                                | 0° ±2°     |  |           | product family METRAL code   |     |
|             |                |    |      | dr                                    | T.BRUNGARD | 11/19/99  | size      |  | 213 |
|             |                |    |      | engr                                  | M.STRAWSER | 11/19/99  | dwg no    |  | 8   |
|             |                |    |      | chr                                   | M.STRAWSER | 11/19/99  | scale     |  |     |
|             |                |    |      | appd                                  | M.STRAWSER | 02/29/00  | A         |  |     |
| sheet index | revision sheet |    |      |                                       |            |   | cage code |  |     |



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