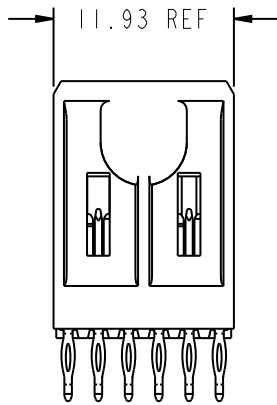
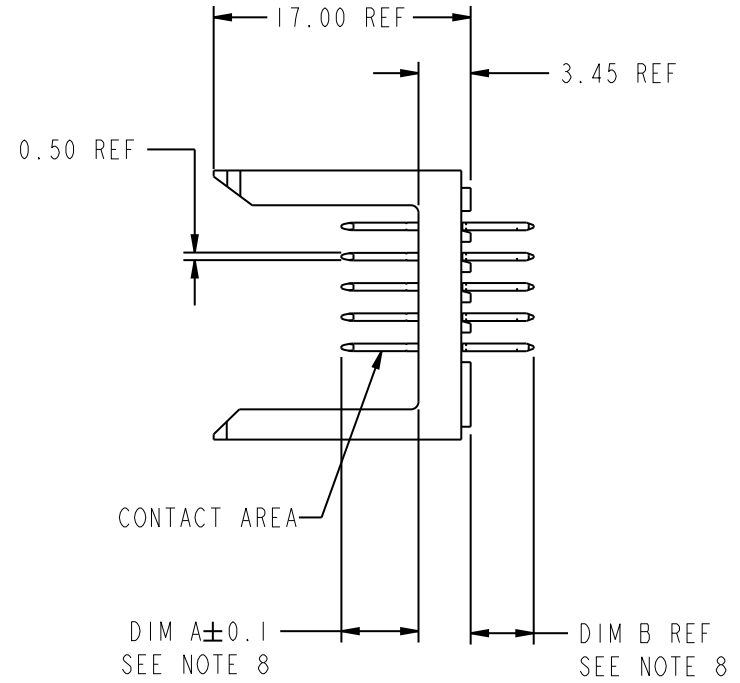
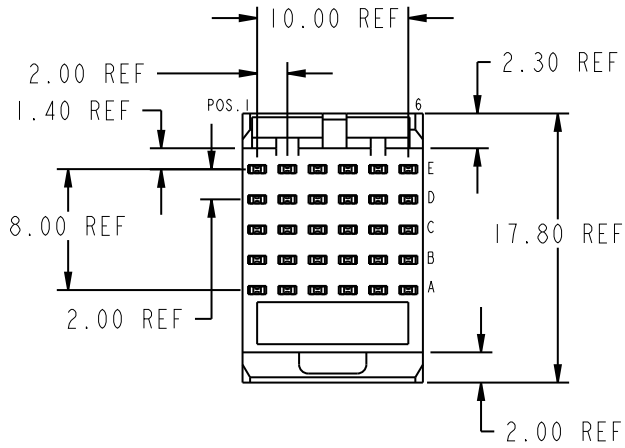


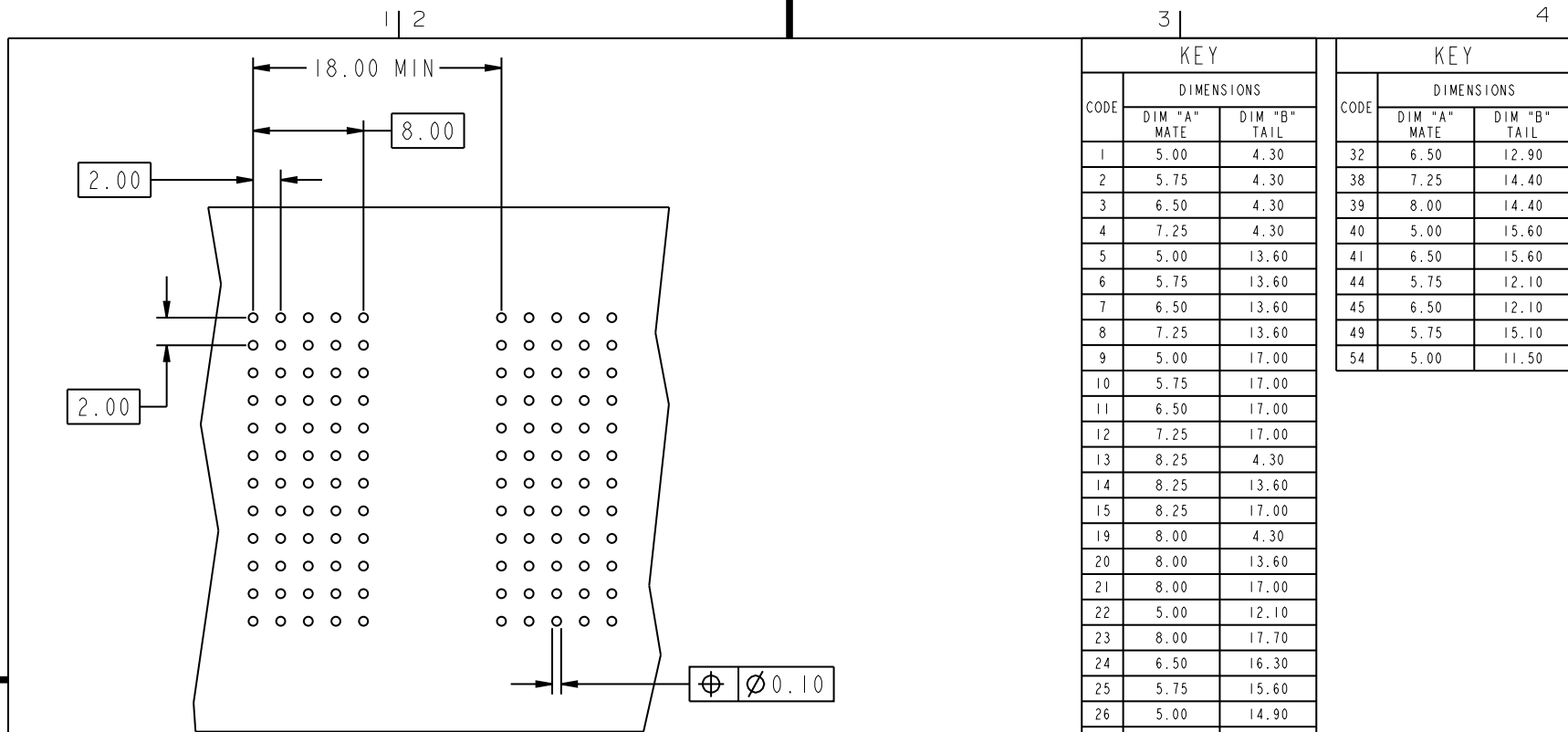
PRODUCT NUMBER
89025-XY
89025-XYLF



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

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| mat'l code | | | | tolerances unless otherwise specified | | CUSTOMER | | FCI www.fciconnect.com | |
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | projection | COPY | title | METRAL SIGNAL HEADER 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 | | | | | |
| | | engr | M.STRAWSER | 11/19/99 | | | | | |
| | | chr | M.STRAWSER | 11/19/99 | size | dwg no | A | code | 213 |
| | | appd | M.STRAWSER | 02/29/00 | | | | | |
| sheet index | revision sheet | | | | | | | | sheet |
| | | | | | | | | | 2 |
| | | | | | | | | cage code | 22526 |
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| METRAL P/N | ROW | CONTACT CODE MOD. I | | | | | |
|---|-----|---------------------|----|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| 89025-X01 SEE NOTE 10 LEAD FREE OPTION | E | 10 | 10 | 10 | 10 | 10 | 10 |
| | D | 10 | 10 | 10 | 10 | 10 | 10 |
| | C | 9 | 9 | 9 | 9 | 9 | 9 |
| | B | 10 | 10 | 10 | 10 | 10 | 10 |
| | A | 3 | 3 | 3 | 3 | 3 | 3 |
| 89025-X02 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 3 | 3 | 2 | |
| | D | 2 | 2 | 3 | 2 | 2 | |
| | C | 2 | 1 | 2 | 3 | 2 | |
| | B | 2 | 2 | 2 | 3 | 2 | 2 |
| | A | 2 | 2 | 2 | 3 | 3 | 2 |
| 89025-X03 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 3 | 2 | 2 |
| | D | 2 | 2 | 2 | 3 | 2 | 2 |
| | C | 2 | 1 | 2 | 3 | 2 | 2 |
| | B | 2 | 2 | 2 | 3 | 2 | 2 |
| | A | 2 | 2 | 2 | 3 | 2 | 2 |
| 89025-X04 SEE NOTE 10 LEAD FREE OPTION | E | 12 | 25 | 23 | 23 | 23 | 25 |
| | D | 12 | 25 | 23 | 23 | 23 | 25 |
| | C | 12 | 25 | 23 | 23 | 23 | 25 |
| | B | 12 | 25 | 23 | 23 | 23 | 25 |
| | A | 12 | 25 | 23 | 23 | 23 | 25 |

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

| | | | | | | | | | | | |
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| 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 | T.BRUNGARD 11/19/99 | | product family | | METRAL code | |
| | | | | engr | 0° ±2° | M.STRAWSER 11/19/99 | | size | | 213 | |
| | | | | chr | | M.STRAWSER 11/19/99 | | dwg no | | sheet | |
| | | | | appd | | M.STRAWSER 02/29/00 | | A 89025 | | 3 | |
| sheet index | revision sheet | | | | | scale 1:1 | | | | | |

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| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
|---|---|-----|---------------------|----|----|----|----|
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X21 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X22 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X23 SEE NOTE 10 LEAD FREE OPTION | E | 2 | - | 2 | - | 2 | - |
| | D | - | - | - | - | - | - |
| | C | 2 | - | 2 | - | 2 | - |
| | B | - | - | - | - | - | - |
| | A | 2 | - | 2 | - | 2 | - |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X24 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X25 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X26 SEE NOTE 10 LEAD FREE OPTION | E | - | - | - | - | - | - |
| | D | 3 | 3 | - | - | - | - |
| | C | 3 | 3 | - | - | - | - |
| | B | 3 | 3 | - | - | - | - |
| | A | 3 | 3 | - | - | - | - |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X27 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X28 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X29 SEE NOTE 10 LEAD FREE OPTION | E | - | - | - | - | - | - |
| | D | 1 | 1 | - | - | - | - |
| | C | 1 | 1 | - | - | - | - |
| | B | 1 | 1 | - | - | - | - |
| | A | 1 | 1 | - | - | - | - |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X30 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X31 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X32 SEE NOTE 10 LEAD FREE 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 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X33 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X34 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X35 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X36 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X37 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X38 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X39 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |
| METRAL P/N | | ROW | CONTACT CODE MOD. I | | | | |
| | | | 1 | 2 | 3 | 4 | 5 |
| 89025-X40 SEE NOTE 10 LEAD FREE 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 |
| 2 | | | | | | | |

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| 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 | |
| | | | | | 0° ±2° | | | 1 MOD, 5 ROW PRESS-FIT | |
| | | dr | T.BRUNGARD | 11/19/99 | | MM | | product family | |
| | | enrg | M.STRAWSER | 11/19/99 | | ← | | METRAL | |
| | | chr | M.STRAWSER | 11/19/99 | | → | | code | |
| | | appd | M.STRAWSER | 02/29/00 | | scale | | 213 | |
| sheet | revision | | | | | 1:1 | | size | |
| index | sheet | | | | | A | | 89025 | |
| | | | | | | | | sheet | |
| | | | | | | | | 4 | |
| | | | | | | | | cage code | |
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| | | 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 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 19 | 3 | 3 | 3 | 89025-X65 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 19 | 3 | 3 | 19 | 89025-X69 SEE NOTE 10 LEAD FREE OPTION | E | 14 | 6 | 8 | 8 | 8 | 89025-X73 SEE NOTE 10 LEAD FREE OPTION | E | - | 2 | - | 2 | - | 2 | 89025-X77 SEE NOTE 10 LEAD FREE 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 | | D | 2 | - | 2 | - | 2 | - | | D | 7 | 7 | 7 | 7 | 7 | |
| | C | 3 | 19 | 3 | 3 | 3 | | C | 3 | 3 | 3 | 3 | 19 | | C | 14 | 7 | 8 | 8 | 8 | | C | - | 2 | - | 2 | - | 2 | | C | 7 | 7 | 7 | 7 | 7 | |
| | B | 19 | 19 | 3 | 3 | 3 | | B | 3 | 3 | 3 | 3 | 19 | | B | 14 | 7 | 8 | 8 | 8 | | B | 2 | - | 2 | - | 2 | - | | B | 7 | 7 | 7 | 7 | 7 | |
| | A | 19 | 19 | 3 | 3 | 3 | | A | 3 | 3 | 3 | 3 | 19 | | A | 14 | 7 | 5 | 8 | 8 | | A | - | 2 | - | 2 | - | 2 | | A | 7 | 7 | 7 | 7 | 7 | |

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

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

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

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

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| | | | | dr | T.BRUNGARD | 11/19/99 | MM | | product family | | |
| | | | | engr | M.STRAWSER | 11/19/99 | ← MM → | | METRAL | | |
| | | | | chr | M.STRAWSER | 11/19/99 | scale | | code | | |
| | | | | appd | M.STRAWSER | 02/29/00 | 1:1 | | 213 | | |
| sheet index | revision sheet | | | | | | A | | sheet | | |
| | | | | | | | A | | 6 | | |



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| METRAL P/N | ROW | CONTACT CODE MOD. I | | | | | |
|---|-----|---------------------|---|----|----|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| 89025-X81 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 2 | 2 | 2 | 2 | 1 | 1 |
| | B | 1 | 1 | 1 | 1 | 1 | 1 |
| | A | 1 | 1 | 1 | 1 | 1 | 1 |
| 89025-X82 SEE NOTE 10 LEAD FREE OPTION | E | 7 | - | 38 | 38 | - | 7 |
| | D | 7 | - | 38 | 38 | - | 7 |
| | C | 7 | - | 38 | 38 | - | 7 |
| | B | 7 | - | 38 | 38 | - | 7 |
| | A | 7 | - | 38 | 38 | - | 7 |
| 89025-X83 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 1 | 1 | - | 1 | 1 |
| | D | 1 | 1 | 1 | - | 1 | 1 |
| | C | 1 | 1 | 1 | - | 1 | 1 |
| | B | 1 | 1 | 1 | - | - | - |
| | A | 1 | 1 | 1 | 1 | 1 | 1 |
| 89025-X84 SEE NOTE 10 LEAD FREE OPTION | E | 7 | 7 | 7 | 7 | 7 | 7 |
| | D | 7 | 4 | 7 | 7 | 7 | 7 |
| | C | 4 | 7 | 4 | 7 | 7 | 7 |
| | B | 7 | 7 | 4 | 7 | 7 | 7 |
| | A | 7 | 7 | 7 | 4 | 7 | 7 |

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| METRAL P/N | ROW | CONTACT CODE MOD. I | | | | | |
|---|-----|---------------------|----|---|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| 89025-X85 SEE NOTE 10 LEAD FREE OPTION | E | - | - | - | - | 3 | - |
| | D | - | - | - | - | 3 | - |
| | C | - | - | - | - | - | - |
| | B | - | - | - | - | 3 | - |
| | A | - | - | - | - | 3 | - |
| 89025-X86 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 3 | 3 | 3 | 3 | 3 |
| | D | 19 | 3 | 3 | 3 | 3 | 1 |
| | C | 19 | 3 | 3 | 3 | 3 | 1 |
| | B | 19 | 3 | 3 | 3 | 3 | 2 |
| | A | 19 | 3 | 3 | 3 | 3 | 3 |
| 89025-X87 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 1 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 3 | 3 | 3 | 3 | 3 | 3 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 |
| 89025-X88 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 4 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 |
| 89025-X89 SEE NOTE 10 LEAD FREE 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 | 1 | 4 |
| 89025-X90 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 3 | 3 | 3 | 2 | 1 |
| | D | 19 | 3 | 3 | 3 | 2 | 1 |
| | C | 19 | 3 | 3 | 3 | 2 | 1 |
| | B | 19 | 3 | 3 | 3 | 2 | 1 |
| | A | 19 | 3 | 3 | 3 | 2 | 1 |
| 89025-X91 SEE NOTE 10 LEAD FREE OPTION | E | 20 | 7 | 7 | 7 | 6 | 5 |
| | D | 20 | 7 | 7 | 7 | 6 | 5 |
| | C | 20 | 7 | 7 | 7 | 6 | 5 |
| | B | 20 | 7 | 7 | 7 | 6 | 5 |
| | A | 20 | 7 | 7 | 7 | 6 | 5 |
| 89025-X92 SEE NOTE 10 LEAD FREE OPTION | E | 19 | 4 | 4 | 4 | 4 | 4 |
| | D | 19 | 4 | 4 | 4 | 4 | 4 |
| | C | 19 | 4 | 4 | 4 | 4 | 4 |
| | B | 19 | 4 | 4 | 4 | 4 | 4 |
| | A | 19 | 4 | 4 | 4 | 4 | 4 |
| 89025-X93 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 3 | 2 | 2 | 4 | 4 |
| | D | 2 | 3 | 2 | 2 | 4 | 4 |
| | C | 2 | 3 | 2 | 2 | 4 | 4 |
| | B | 2 | 3 | 2 | 2 | 4 | 4 |
| | A | 2 | 3 | 2 | 2 | 4 | 4 |
| 89025-X94 SEE NOTE 10 LEAD FREE OPTION | E | 1 | 19 | 3 | 3 | 3 | 3 |
| | D | 3 | 19 | 3 | 3 | 3 | 3 |
| | C | 3 | 19 | 3 | 3 | 3 | 3 |
| | B | 19 | 19 | 3 | 3 | 3 | 3 |
| | A | 19 | 19 | 3 | 3 | 3 | 3 |
| 89025-X95 SEE NOTE 10 LEAD FREE OPTION | E | 2 | 2 | 2 | 2 | 2 | 2 |
| | D | 2 | 2 | 2 | 2 | 2 | 2 |
| | C | 1 | 2 | 2 | 2 | 2 | 2 |
| | B | 2 | 2 | 2 | 2 | 2 | 2 |
| | A | 2 | 2 | 2 | 2 | 2 | 2 |
| 89025-X96 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 3 | - | 3 | 3 | |
| | D | 3 | 3 | - | 3 | 3 | |
| | C | 3 | 3 | - | 3 | 3 | |
| | B | 3 | 3 | - | - | - | |
| | A | 3 | 3 | 3 | 3 | 3 | 3 |
| 89025-X97 SEE NOTE 10 LEAD FREE OPTION | E | 3 | 3 | 3 | 3 | - | 3 |
| | D | 3 | 3 | 3 | 3 | - | 3 |
| | C | 3 | 3 | 3 | 3 | 3 | 3 |
| | B | 3 | 3 | 3 | 3 | 3 | 3 |
| | A | 3 | 3 | 3 | - | - | 3 |
| 89025-X98 SEE NOTE 10 LEAD FREE OPTION | E | 4 | 4 | 4 | 19 | 19 | 19 |
| | D | 4 | 4 | 4 | 19 | 19 | 19 |
| | C | 4 | 4 | 4 | 19 | 19 | 19 |
| | B | 4 | 4 | 4 | 19 | 19 | 19 |
| | A | 4 | 4 | 4 | 19 | 19 | 19 |
| 89025-X99 SEE NOTE 10 LEAD FREE OPTION | E | 8 | 8 | 8 | 20 | 20 | 20 |
| | D | 8 | 8 | 8 | 20 | 20 | 20 |
| | C | 8 | 8 | 8 | 20 | 20 | 20 |
| | B | 8 | 8 | 8 | 20 | 20 | 20 |
| | A | 8 | 8 | 8 | 20 | 20 | 20 |

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| | | | | engr | T.BRUNGARD 11/19/99 | MM | | METRAL | |
| | | | | chr | M.STRAWSER 11/19/99 | | | code | |
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B

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|----------------|
| 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) IEC CLASS I | SEE NOTE 9 |
| -N5YYLF | TELCORDIA UE (NXT) | SEE NOTE 9 |
| -1YYLF | TELCORDIA CO 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



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| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | COPY | | title METRAL SIGNAL HEADER 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 | | sheet | |
| | | chr | M.STRAWSER | 11/19/99 | | 89025 | | 8 | |
| | | appd | M.STRAWSER | 02/29/00 | | A | | | |
| sheet index | revision sheet | | | | | scale 1:1 | | | |

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Электронная почта: sales@st-electron.ru

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