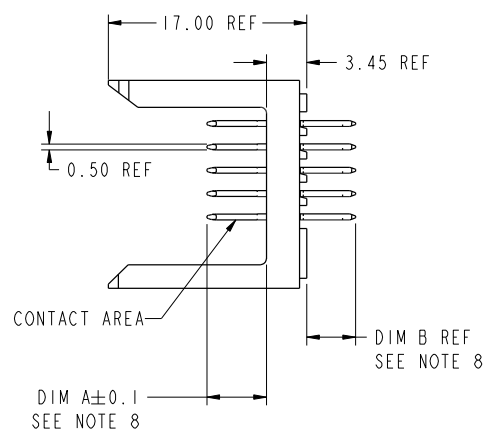
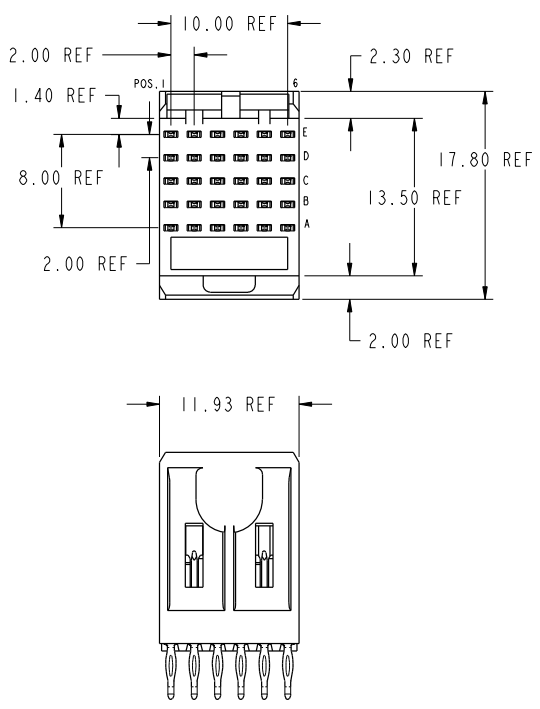


|                |
|----------------|
| PRODUCT NUMBER |
| 89006-XXX      |
| 89006-XYLF     |



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|     |           |      |            |
|-----|-----------|------|------------|
| rev | ecn no    | dr   | date       |
| AR  | V06-0573  | DCH  | 2006-06-14 |
| AS  | DG07-0409 | CenH | 2007-10-17 |
| AT  | DG09-0256 | TER  | 2009-08-19 |
| AU  | DG10-0413 | TER  | 2010-11-23 |
| AN  | V04-1100  | DAI  | 2005-01-26 |
| AP  | V05-0255  | LP   | 2006-03-30 |

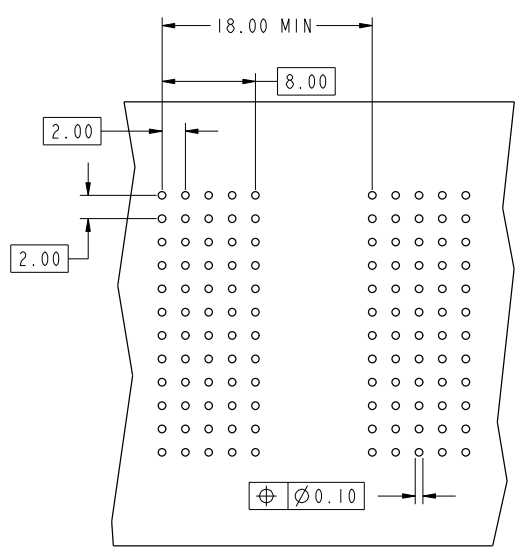
|                           |  |                                       |                  |             |                   |
|---------------------------|--|---------------------------------------|------------------|-------------|-------------------|
| www.fciconnect.com        |  | surface3.200                          | tolerance std    | projection  | mm                |
| Dr T. BRUNGARD 11/19/99   |  | ISO 1302                              | ISO 406 ISO 1101 | ISO 1302    | Scale 11:10       |
| Eng M. STRAWSER 11/19/99  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |                  | size A4     | ECN *             |
| Chr M. STRAWSER 11/19/99  |  | ANGULAR                               | LINEAR           | 0.X ±0.3    | 0.XX ±0.13        |
| Appr M. STRAWSER 02/29/00 |  | 0° ±2°                                | Product family   | 0.XXX ±.051 | METRAL Spec ref * |
| FCJ                       |  | METRAL SIGNAL HEADER                  |                  | 89006       | Rev. AU           |
| TITLE                     |  | I MOD, 5 ROW PRESS-FIT                |                  | CUSTOMER    | sheet 1 of 9      |
| catalog no                |  |                                       |                  |             |                   |

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

| KEY  |                 |                 |
|------|-----------------|-----------------|
| CODE | DIMENSIONS      |                 |
|      | DIM "A"<br>MATE | DIM "B"<br>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           |
| 16   | 7.00            | 4.30            |
| 17   | 7.00            | 13.60           |
| 18   | 7.00            | 17.00           |
| 19   | 8.00            | 4.30            |
| 20   | 8.00            | 13.60           |
| 21   | 8.00            | 17.00           |

|                                       |             |                                                                     |                                   |                        |                   |
|---------------------------------------|-------------|---------------------------------------------------------------------|-----------------------------------|------------------------|-------------------|
| www.fciconnect.com                    |             | surface 3.200<br>ISO 1302                                           | tolerance std<br>ISO 406 ISO 1101 | projection<br>ISO 1101 | mm                |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |             |                                                                     |                                   |                        |                   |
| Dr                                    | T. BRUNGARD | 11/19/99                                                            | ANGULAR                           | LINEAR                 | 0.x ±0.3          |
| Eng                                   | M. STRAWSER | 11/19/99                                                            | 0° ±2°                            |                        | 0.xx ±0.13        |
| Chr                                   | M. STRAWSER | 11/19/99                                                            |                                   |                        | 0.xxx ±.051       |
| Appr                                  | M. STRAWSER | 02/29/00                                                            | Product family                    | METRAL                 | Spec ref *        |
|                                       |             | <b>METRAL SIGNAL HEADER</b><br>I MOD, 5 ROW PRESS-FIT<br>catalog no |                                   | qty no<br><b>89006</b> | Rev.<br><b>AU</b> |
|                                       |             |                                                                     |                                   | <b>CUSTOMER</b>        | sheet 2 of 9      |

PDM: Rev:AU STATUS:Released<sup>4</sup> Printed: Nov 26, 2010



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|-------------------------------------------------|-----|---------------------|----|----|----|----|----|
|                                                 |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 89006-X10<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   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 1                   | 1  | 1  | 1  | 1  | 1  |
| 89006-X11<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | 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  |
| 89006-X12<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 1                   | 1  | 1  | 1  | 1  | 1  |
| 89006-X13<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 4                   | 4  | 4  | 4  | 4  | 4  |
| 89006-X14<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 4                   | 4  | 4  | 4  | 4  | 4  |
| 89006-X15<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   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 3                   | 3  | 3  | 3  | 3  | 3  |
| 89006-X16<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 2                   | 2  | 2  | 2  | 2  | 2  |
| 89006-X17<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 19                  | 19 | 19 | 19 | 19 | 19 |
| 89006-X19<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 4                   | 4  | 4  | 4  | 4  | 4  |
| 89006-X20<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 5                   | 5  | 5  | 5  | 5  | 5  |
| 89006-X21<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 7                   | 7  | 7  | 7  | 7  | 7  |
| 89006-X22<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 5                   | 5  | 5  | 5  | 5  | 5  |
| 89006-X23<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 8                   | 8  | 8  | 8  | 8  | 8  |
| 89006-X24<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 8                   | 8  | 8  | 8  | 8  | 8  |
| 89006-X25<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 7                   | 7  | 7  | 7  | 7  | 7  |
| 89006-X26<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | 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  |

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|                                       |                             |                           |                                   |                  |
|---------------------------------------|-----------------------------|---------------------------|-----------------------------------|------------------|
| www.fciconnect.com                    |                             | surface 3,200<br>ISO 1302 | tolerance std<br>ISO 406 ISO 1101 | projection<br>mm |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                             | mm                        |                                   |                  |
| Dr T. BRUNGARD                        | 11/19/99                    | ANGULAR                   | 0.x ±0.3                          | size A4          |
| Eng M. STRAWSER                       | 11/19/99                    | LINEAR                    | 0.xx ±0.13                        | Scale 1:10       |
| Chr M. STRAWSER                       | 11/19/99                    | 0° ±2°                    | 0.xxx ±.051                       | ECN *            |
| Appr M. STRAWSER                      | 02/29/00                    | Product family            | METRAL                            | Spec ref *       |
|                                       | <b>METRAL SIGNAL HEADER</b> | 89006                     |                                   | Rev. AU          |
| 1 MOD, 5 ROW PRESS-FIT                |                             | CUSTOMER                  |                                   | sheet 3 of 9     |
| catalog no                            |                             |                           |                                   |                  |

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| METRAL P/N                                      | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|-------------------------------------------------|-----|---------------------|----|----|----|----|----|
|                                                 |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 89006-X27<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 20                  | 20 | 20 | 20 | 20 | 20 |
| 89006-X29<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 8                   | 8  | 8  | 8  | 8  | 8  |
| 89006-X30<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 9                   | 9  | 9  | 9  | 9  | 9  |
| 89006-X31<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | D   | 11                  | 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 |
| 89006-X32<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 9                   | 9  | 9  | 9  | 9  | 9  |
| 89006-X33<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | A   | 12                  | 12 | 12 | 12 | 12 | 12 |
| 89006-X34<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | A   | 12                  | 12 | 12 | 12 | 12 | 12 |
| 89006-X35<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 11                  | 11 | 11 | 11 | 11 | 11 |
| 89006-X36<br>SEE NOTE 10<br>LEAD FREE<br>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   | 10                  | 10 | 10 | 10 | 10 | 10 |
| 89006-X37<br>SEE NOTE 10<br>LEAD FREE<br>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   | 21                  | 21 | 21 | 21 | 21 | 21 |
| 89006-X39<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | A   | 12                  | 12 | 12 | 12 | 12 | 12 |
| 89006-X40<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 2                   | 2  | 2  | 2  | 2  | 2  |
| 89006-X41<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 3                   | 3  | 3  | 3  | 3  | 3  |
| 89006-X42<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 4                   | 4  | 4  | 4  | 4  | 4  |
| 89006-X43<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 4                   | 4  | 4  | 4  | 4  | 4  |
| 89006-X44<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 1                   | 1  | 1  | 1  | 1  | 1  |

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|                                       |             |                             |                  |            |              |
|---------------------------------------|-------------|-----------------------------|------------------|------------|--------------|
| www.fciconnect.com                    |             | surface 3,200               | tolerance std    | projection | mm           |
|                                       |             | ISO 1302                    | ISO 406 ISO 1101 |            |              |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |             |                             |                  |            |              |
| Dr                                    | T. BRUNGARD | 11/19/99                    | ANGULAR          | 0.x        | ±0.3         |
| Eng                                   | M. STRAWSER | 11/19/99                    | LINEAR           | 0.xx       | ±0.13        |
| Chr                                   | M. STRAWSER | 11/19/99                    | 0° ±2°           | 0.xxx      | ±.051        |
| Appr                                  | M. STRAWSER | 02/29/00                    | Product family   | METRAL     | Spec ref     |
|                                       |             | <b>METRAL SIGNAL HEADER</b> |                  | 89006      | Rev. AU      |
|                                       |             | 1 MOD, 5 ROW PRESS-FIT      |                  | CUSTOMER   | sheet 4 of 9 |
| catalog no                            |             |                             |                  |            |              |

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| METRAL P/N                                      | ROW | CONTACT CODE MOD. 1 |    |    |    |    |    |
|-------------------------------------------------|-----|---------------------|----|----|----|----|----|
|                                                 |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 89006-X45<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | D   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 1                   | 1  | 1  | 1  | 1  | 1  |
| 89006-X46<br>SEE NOTE 10<br>LEAD FREE<br>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  | 2  |
|                                                 | A   | 2                   | 2  | 2  | 2  | 2  | 2  |
| 89006-X47<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | A   | 3                   | 3  | 3  | 3  | 3  | 3  |
| 89006-X48<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | D   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | B   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 19                  | 19 | 19 | 19 | 19 | 19 |
| 89006-X49<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 19                  | 19 | 19 | 19 | 19 | 19 |
| 89006-X50<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 6                   | 6  | 6  | 6  | 6  | 6  |
| 89006-X51<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 7                   | 7  | 7  | 7  | 7  | 7  |
| 89006-X52<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 8                   | 8  | 8  | 8  | 8  | 8  |
| 89006-X53<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 8                   | 8  | 8  | 8  | 8  | 8  |
| 89006-X54<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 5                   | 5  | 5  | 5  | 5  | 5  |
| 89006-X55<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | A   | 5                   | 5  | 5  | 5  | 5  | 5  |
| 89006-X56<br>SEE NOTE 10<br>LEAD FREE<br>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  | 6  |
|                                                 | A   | 6                   | 6  | 6  | 6  | 6  | 6  |
| 89006-X57<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 7                   | 7  | 7  | 7  | 7  | 7  |
| 89006-X58<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | D   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | B   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | A   | 20                  | 20 | 20 | 20 | 20 | 20 |
| 89006-X59<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 20                  | 20 | 20 | 20 | 20 | 20 |
| 89006-X60<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | A   | 10                  | 10 | 10 | 10 | 10 | 10 |

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|                                       |                             |                          |                                   |                  |
|---------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------|
| www.fciconnect.com                    |                             | surface3,200<br>ISO 1302 | tolerance std<br>ISO 406 ISO 1101 | projection<br>mm |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                             |                          |                                   |                  |
| Dr T. BRUNGARD                        | 11/19/99                    | ANGULAR                  | 0.x ±0.3                          | size A4          |
| Eng M. STRAWSER                       | 11/19/99                    | LINEAR                   | 0.xx ±0.13                        | Scale 1:10       |
| Chr M. STRAWSER                       | 11/19/99                    | 0° ±2°                   | 0.xxx ±.051                       | ECN *            |
| Appr M. STRAWSER                      | 02/29/00                    | Product family           | METRAL                            | Spec ref *       |
|                                       | <b>METRAL SIGNAL HEADER</b> |                          | 89006                             | Rev. AU          |
| 1 MOD, 5 ROW PRESS-FIT                |                             | catalog no               | CUSTOMER                          | sheet 5 of 9     |

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| METRAL P/N                                      | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|-------------------------------------------------|-----|---------------------|----|----|----|----|----|
|                                                 |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 89006-X61<br>SEE NOTE 10<br>LEAD FREE<br>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   | 11                  | 11 | 11 | 11 | 11 | 11 |
| 89006-X62<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | A   | 12                  | 12 | 12 | 12 | 12 | 12 |
| 89006-X63<br>SEE NOTE 10<br>LEAD FREE<br>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   | 12                  | 12 | 12 | 12 | 12 | 12 |
| 89006-X64<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | A   | 9                   | 9  | 9  | 9  | 9  | 9  |
| 89006-X65<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | D   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | B   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | A   | 9                   | 9  | 9  | 9  | 9  | 9  |
| 89006-X66<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | A   | 10                  | 10 | 10 | 10 | 10 | 10 |
| 89006-X67<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | A   | 11                  | 11 | 11 | 11 | 11 | 11 |
| 89006-X68<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | D   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | C   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | B   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | A   | 21                  | 21 | 21 | 21 | 21 | 21 |
| 89006-X69<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                 | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | A   | 21                  | 21 | 21 | 21 | 21 | 21 |
| 89006-X70<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 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  |
| 89006-X71<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 3                   | 3  | 3  | 3  | 3  | 3  |
| 89006-X72<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | D   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | C   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | B   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 19                  | 19 | 19 | 19 | 19 | 19 |
| 89006-X73<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | D   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 13                  | 13 | 13 | 13 | 13 | 13 |
| 89006-X74<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 13                  | 13 | 13 | 13 | 13 | 13 |
|                                                 | D   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | C   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | B   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | A   | 13                  | 13 | 13 | 13 | 13 | 13 |
| 89006-X75<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 3                   | 3  | 3  | 3  | 3  | 3  |
| 89006-X76<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   | 1                   | 1  | 1  | 1  | 1  | 1  |
|                                                 | A   | 4                   | 4  | 4  | 4  | 4  | 4  |

|                           |  |                                       |                       |              |            |
|---------------------------|--|---------------------------------------|-----------------------|--------------|------------|
| www.fciconnect.com        |  | surface 3,200                         | tolerance std         | projection   | mm         |
| Dr T. BRUNGARD 11/19/99   |  | ISO 1302                              | ISO 406 ISO 1101      | ⊕            | ←→         |
| Eng M. STRAWSER 11/19/99  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |                       | size A4      | Scale 1:10 |
| Chr M. STRAWSER 11/19/99  |  | ANGULAR                               | LINEAR                | 0.x ±0.3     | ±0.13      |
| Appr M. STRAWSER 02/29/00 |  | 0° ±2°                                | Product family METRAL | ECN *        | Spec ref * |
| FCI METRAL SIGNAL HEADER  |  | 1 MOD, 5 ROW PRESS-FIT                |                       | 89006        | Rev. AU    |
| catalog no                |  | CUSTOMER                              |                       | sheet 6 of 9 |            |



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| METRAL P/N                                      | ROW | CONTACT CODE MOD. I |    |    |    |    |    |
|-------------------------------------------------|-----|---------------------|----|----|----|----|----|
|                                                 |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 89006-X77<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | A   | 3                   | 3  | 3  | 3  | 3  | 3  |
| 89006-X78<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 13                  | 13 | 13 | 13 | 13 | 13 |
|                                                 | D   | 16                  | 16 | 16 | 16 | 16 | 16 |
|                                                 | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                 | B   | 16                  | 16 | 16 | 16 | 16 | 16 |
|                                                 | A   | 13                  | 13 | 13 | 13 | 13 | 13 |
| 89006-X79<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | D   | 3                   | 3  | 3  | 3  | 3  | 3  |
|                                                 | C   | 4                   | 4  | 4  | 4  | 4  | 4  |
|                                                 | B   | 19                  | 19 | 19 | 19 | 19 | 19 |
|                                                 | A   | 4                   | 4  | 4  | 4  | 4  | 4  |
| 89006-X80<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | D   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | C   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | A   | 6                   | 6  | 6  | 6  | 6  | 6  |
| 89006-X81<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | A   | 7                   | 7  | 7  | 7  | 7  | 7  |
| 89006-X82<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | D   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 20                  | 20 | 20 | 20 | 20 | 20 |
| 89006-X83<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | D   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 14                  | 14 | 14 | 14 | 14 | 14 |
| 89006-X84<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 14                  | 14 | 14 | 14 | 14 | 14 |
|                                                 | D   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | C   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | B   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | A   | 14                  | 14 | 14 | 14 | 14 | 14 |
| 89006-X85<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 7                   | 7  | 7  | 7  | 7  | 7  |
| 89006-X86<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | D   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | C   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | B   | 5                   | 5  | 5  | 5  | 5  | 5  |
|                                                 | A   | 8                   | 8  | 8  | 8  | 8  | 8  |
| 89006-X87<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 20                  | 20 | 20 | 20 | 20 | 20 |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | A   | 7                   | 7  | 7  | 7  | 7  | 7  |
| 89006-X88<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 14                  | 14 | 14 | 14 | 14 | 14 |
|                                                 | D   | 17                  | 17 | 17 | 17 | 17 | 17 |
|                                                 | C   | 6                   | 6  | 6  | 6  | 6  | 6  |
|                                                 | B   | 17                  | 17 | 17 | 17 | 17 | 17 |
|                                                 | A   | 14                  | 14 | 14 | 14 | 14 | 14 |
| 89006-X89<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | D   | 7                   | 7  | 7  | 7  | 7  | 7  |
|                                                 | C   | 8                   | 8  | 8  | 8  | 8  | 8  |
|                                                 | B   | 17                  | 17 | 17 | 17 | 17 | 17 |
|                                                 | A   | 20                  | 20 | 20 | 20 | 20 | 20 |
| 89006-X90<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | D   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                 | A   | 10                  | 10 | 10 | 10 | 10 | 10 |
| 89006-X91<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | D   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                 | B   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | A   | 11                  | 11 | 11 | 11 | 11 | 11 |
| 89006-X92<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                 | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                 | A   | 21                  | 21 | 21 | 21 | 21 | 21 |

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|                           |  |                                       |                  |              |            |
|---------------------------|--|---------------------------------------|------------------|--------------|------------|
| www.fciconnect.com        |  | surface3,200                          | tolerance std    | projection   | mm         |
| Dr T. BRUNGARD 11/19/99   |  | ISO 1302                              | ISO 406 ISO 1101 | ⊕            | ←→         |
| Eng M. STRAWSER 11/19/99  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |                  | size A4      | Scale 1:10 |
| Chr M. STRAWSER 11/19/99  |  | ANGULAR                               | LINEAR           | 0.x ±0.3     | ±0.13      |
| Appr M. STRAWSER 02/29/00 |  | 0° ±2°                                | 0.xxx ±.051      | ECN *        |            |
| Product family METRAL     |  | Spec ref *                            |                  |              |            |
| FCI METRAL SIGNAL HEADER  |  | 89006                                 |                  | Rev. AU      |            |
| I MOD, 5 ROW PRESS-FIT    |  | CUSTOMER                              |                  | sheet 7 of 9 |            |
| catalog no                |  |                                       |                  |              |            |

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|--------------------------------------------------|-----|---------------------|----|----|----|----|----|
|                                                  |     | 1                   | 2  | 3  | 4  | 5  | 6  |
| 89006-X93<br>SEE NOTE 10<br>LEAD FREE<br>OPTION  | E   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | A   | 15                  | 15 | 15 | 15 | 15 | 15 |
| 89006-X94<br>SEE NOTE 10<br>LEAD FREE<br>OPTION  | E   | 15                  | 15 | 15 | 15 | 15 | 15 |
|                                                  | D   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | C   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | B   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | A   | 15                  | 15 | 15 | 15 | 15 | 15 |
| 89006-X95<br>SEE NOTE 10<br>LEAD FREE<br>OPTION  | E   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |
| 89006-X96<br>SEE NOTE 10<br>LEAD FREE<br>OPTION  | E   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                  | D   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                  | C   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                  | B   | 9                   | 9  | 9  | 9  | 9  | 9  |
|                                                  | A   | 12                  | 12 | 12 | 12 | 12 | 12 |
| 89006-X97<br>SEE NOTE 10<br>LEAD FREE<br>OPTION  | E   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | D   | 21                  | 21 | 21 | 21 | 21 | 21 |
|                                                  | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | B   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | A   | 11                  | 11 | 11 | 11 | 11 | 11 |
| 89006-X98<br>SEE NOTE 10<br>LEAD FREE<br>OPTION  | E   | 15                  | 15 | 15 | 15 | 15 | 15 |
|                                                  | D   | 18                  | 18 | 18 | 18 | 18 | 18 |
|                                                  | C   | 10                  | 10 | 10 | 10 | 10 | 10 |
|                                                  | B   | 18                  | 18 | 18 | 18 | 18 | 18 |
|                                                  | A   | 15                  | 15 | 15 | 15 | 15 | 15 |
| 89006-X99<br>SEE NOTE 10<br>LEAD FREE<br>OPTION  | E   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | D   | 11                  | 11 | 11 | 11 | 11 | 11 |
|                                                  | C   | 12                  | 12 | 12 | 12 | 12 | 12 |
|                                                  | B   | 18                  | 18 | 18 | 18 | 18 | 18 |
|                                                  | A   | 21                  | 21 | 21 | 21 | 21 | 21 |
| 89006-X100<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                   | 3  | 2  | 3  | 1  | 3  |
|                                                  | D   | 1                   | 3  | 2  | 3  | 1  | 3  |
|                                                  | C   | 1                   | 3  | 2  | 3  | 1  | 3  |
|                                                  | B   | 1                   | 3  | 2  | 3  | 1  | 3  |
|                                                  | A   | 1                   | 3  | 2  | 3  | 1  | 3  |
| 89006-X101<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 1                   | 1  | 4  | 4  | 4  | 4  |
|                                                  | D   | 1                   | 1  | 4  | 4  | 4  | 4  |
|                                                  | C   | 1                   | 1  | 4  | 4  | 4  | 4  |
|                                                  | B   | 1                   | 1  | 4  | 4  | 4  | 4  |
|                                                  | A   | 1                   | 1  | 4  | 4  | 4  | 4  |
| 89006-X102<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | D   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | C   | 19                  | 1  | 19 | 2  | 2  | 2  |
|                                                  | B   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | A   | 19                  | 2  | 19 | 2  | 2  | 2  |
| 89006-X103<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 19 | 2  | 2  |
|                                                  | D   | 2                   | 2  | 2  | 19 | 2  | 2  |
|                                                  | C   | 2                   | 1  | 2  | 19 | 2  | 2  |
|                                                  | B   | 2                   | 19 | 19 | 19 | 2  | 2  |
|                                                  | A   | 2                   | 19 | 19 | 2  | 2  | 2  |
| 89006-X104<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                  | 2  | 2  | 2  | 2  | 2  |
|                                                  | D   | 19                  | 2  | 2  | 2  | 2  | 2  |
|                                                  | C   | 19                  | 2  | 2  | 2  | 2  | 1  |
|                                                  | B   | 19                  | 2  | 2  | 2  | 2  | 2  |
|                                                  | A   | 19                  | 2  | 2  | 2  | 2  | 2  |
| 89006-X105<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | D   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | C   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | B   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | A   | 19                  | 2  | 19 | 2  | 2  | 2  |
| 89006-X106<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | D   | 19                  | 2  | 19 | 2  | 2  | 1  |
|                                                  | C   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | B   | 19                  | 2  | 19 | 2  | 2  | 2  |
|                                                  | A   | 19                  | 2  | 19 | 2  | 2  | 2  |
| 89006-X107<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                  | D   | 2                   | 2  | 2  | 2  | 2  | 1  |
|                                                  | C   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                  | B   | 2                   | 2  | 2  | 2  | 2  | 2  |
|                                                  | A   | 2                   | 2  | 2  | 2  | 2  | 2  |
| 89006-X108<br>SEE NOTE 10<br>LEAD FREE<br>OPTION | E   | 19                  | 19 | 2  | 2  | 2  | 2  |
|                                                  | D   | 19                  | 19 | 2  | 1  | 2  | 2  |
|                                                  | C   | 19                  | 19 | 2  | 2  | 2  | 2  |
|                                                  | B   | 19                  | 19 | 2  | 2  | 2  | 2  |
|                                                  | A   | 19                  | 2  | 2  | 2  | 2  | 2  |

|                                       |             |                           |                                   |                        |              |
|---------------------------------------|-------------|---------------------------|-----------------------------------|------------------------|--------------|
| www.fciconnect.com                    |             | surface 3.200<br>ISO 1302 | tolerance std<br>ISO 406 ISO 1101 | projection<br>ISO 1101 | mm           |
| TOLERANCES UNLESS OTHERWISE SPECIFIED |             |                           |                                   |                        |              |
| Dr                                    | T. BRUNGARD | 11/19/99                  | ANGULAR                           | 0.x                    | ±0.3         |
| Eng                                   | M. STRAWSER | 11/19/99                  | LINEAR                            | 0.xx                   | ±0.13        |
| Chr                                   | M. STRAWSER | 11/19/99                  | 0° ±2°                            | 0.xxx                  | ±.051        |
| Appr                                  | M. STRAWSER | 02/29/00                  | Product family                    | METRAL                 | Spec ref     |
| FCI                                   |             | METRAL SIGNAL HEADER      |                                   | Qty no                 | 89006        |
|                                       |             | 1 MOD, 5 ROW PRESS-FIT    |                                   | Rev.                   | AU           |
|                                       |             | catalog no                | CUSTOMER                          |                        | sheet 8 of 9 |



|                |
|----------------|
| PRODUCT NUMBER |
| 89006-XXX      |
| 89006-XYLX     |

- 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:  
73931-XXX IS SnPb  
73931-XYLX IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE  
LEVEL SHOWN IN TABLE BELOW.
  - 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-XXXXP
  - 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, INFRARED 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 "LF" SUFFIX.  
EXAMPLE: 89006-X01LF
  - A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE)

| PLATING IN CONTACT AREA |                                   |             |
|-------------------------|-----------------------------------|-------------|
| DASH NUMBER             | PERFORMANCE LEVEL                 | NOTES       |
| -AYY                    | TELCORDIA CO                      | SEE NOTE 11 |
| -PYY                    | 0.25 um GOLD MIN.                 | -           |
| -N1YY                   | TELCORDIA CO (NXT)                | -           |
| -N5YY                   | TELCORDIA UE (NXT)                | -           |
| -1YY                    | TELCORDIA CO                      | -           |
| -2YY                    | TELECOM CLASS                     | -           |
| -3YY                    | IEC CLASS 1                       | -           |
| -5YY                    | TELCORDIA UE                      | -           |
| -N1YY                   | TELCORDIA CO (NXT)<br>IEC CLASS 1 | SEE NOTE 9  |
| -N5YY                   | TELCORDIA UE (NXT)                | SEE NOTE 9  |
| -1YYLX                  | TELCORDIA CO<br>IEC CLASS 1       | SEE NOTE 9  |
| -2YYLX                  | TELECOM CLASS                     | SEE NOTE 9  |
| -5YYLX                  | TELCORDIA UE                      | SEE NOTE 9  |

|                    |             |                                       |                                   |                  |        |                 |      |       |       |           |
|--------------------|-------------|---------------------------------------|-----------------------------------|------------------|--------|-----------------|------|-------|-------|-----------|
| www.fciconnect.com |             | surface 3,200<br>ISO 1302             | tolerance std<br>ISO 406 ISO 1101 | projection<br>mm |        |                 |      |       |       |           |
|                    |             | TOLERANCES UNLESS OTHERWISE SPECIFIED |                                   |                  |        |                 |      |       |       |           |
| Dr                 | T. BRUNGARD | 11/19/99                              | ANGULAR                           | LINEAR           | 0.X    | ±0.3            | size | A4    | Scale | 1:10      |
| Eng                | M. STRAWSER | 11/19/99                              | 0°                                | ±2°              | 0.XX   | ±0.13           | ECN  | *     |       |           |
| Chr                | M. STRAWSER | 11/19/99                              | Product family                    |                  | METRAL | Spec ref        | *    |       |       |           |
| Appr               | M. STRAWSER | 02/29/00                              | Product family                    |                  | METRAL | Spec ref        | *    |       |       |           |
|                    |             | <b>METRAL SIGNAL HEADER</b>           |                                   | drawing no       |        | <b>89006</b>    |      | Rev.  |       | <b>AU</b> |
|                    |             | 1 MOD, 5 ROW PRESS-FIT                |                                   | catalog no       |        | <b>CUSTOMER</b> |      | sheet |       | 9 of 9    |



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