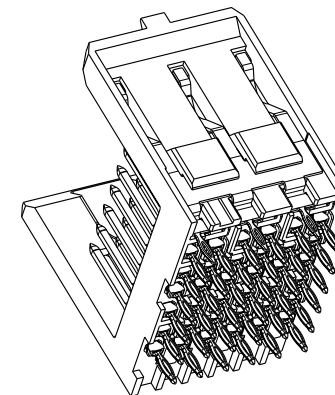
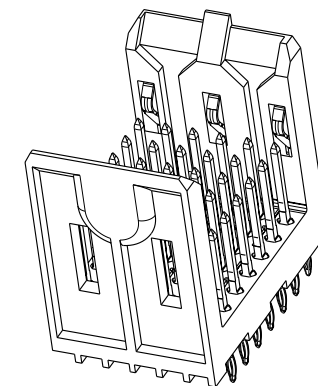
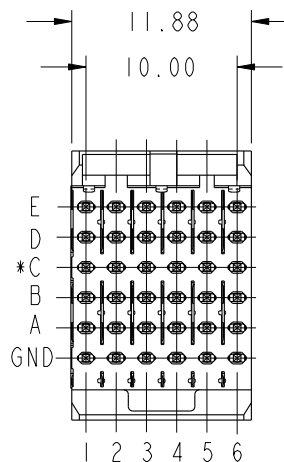
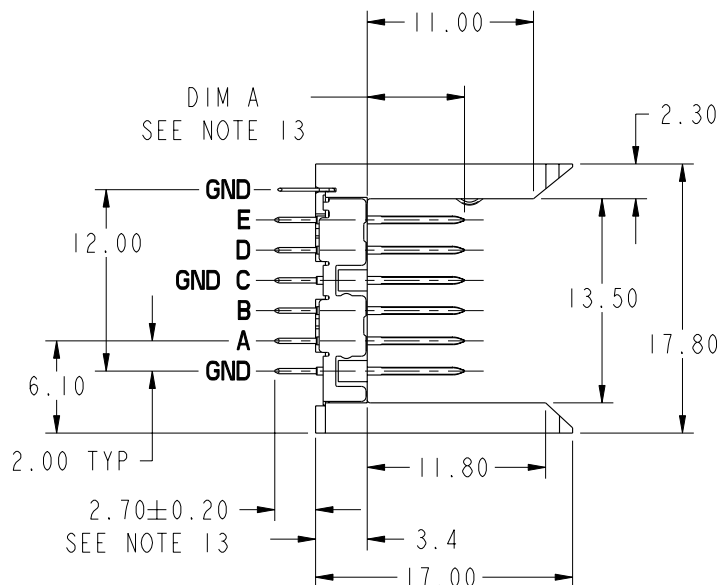


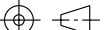


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| PRODUCT<br>NUMBER | PLATING<br>PERFORMANCE<br>LEVEL | APPLICATION |
|-------------------|---------------------------------|-------------|
| 59566-1YYY        | TELCORDIA CO                    | STANDARD    |
| 59566-5YYY        | TELCORDIA UE                    |             |
| 59566-1YYYYLF     | TELCORDIA CO                    | LEAD FREE   |
| 59566-5YYYYLF     | TELCORDIA UE                    |             |

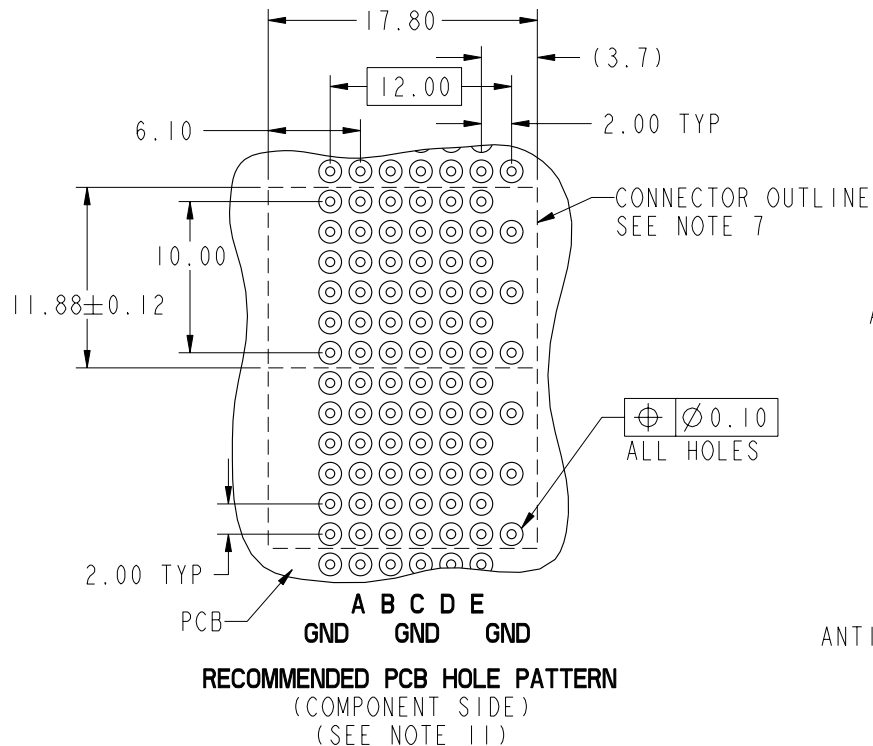


**\* ROW C INFORMATION**  
ODD NUMBER COLUMNS WITHIN ROW C ARE COMMONED  
TO GROUND INTERNALLY WITHIN THE HOUSING. THE  
EVEN NUMBER COLUMNS WITHIN ROW C ARE NOT.  
FOR MAXIMUM PERFORMANCE IT IS RECOMMENDED THESE  
EVEN COLUMNS BE COMMONED TO GROUND WITHIN THE PCB,  
SEE NOTE 12

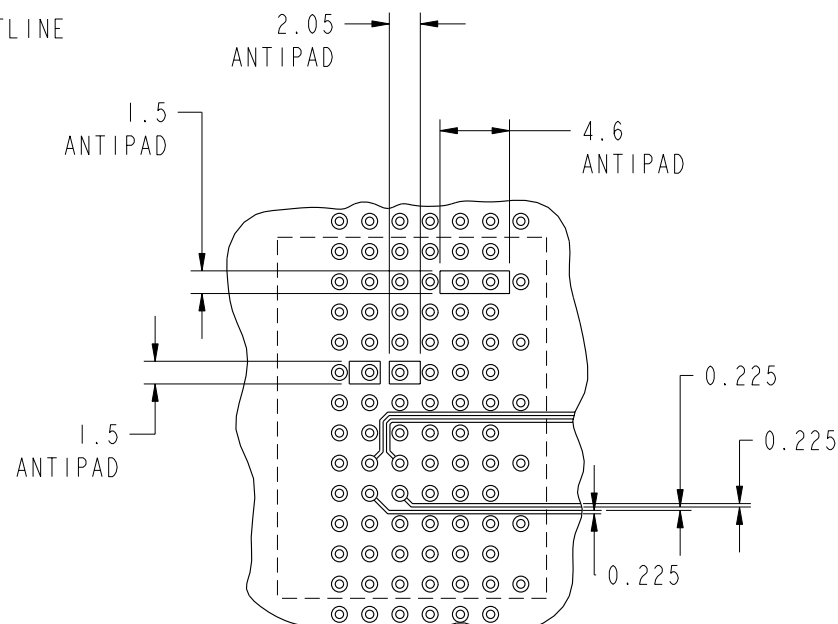
| mat'l code<br>SEE TABLE |          |     |            | tolerances unless<br>otherwise specified |             |            |                                                                                       | CUSTOMER                                                                              |                                                                     | FCi<br>www.fciconnect.com |             |       |                 |
|-------------------------|----------|-----|------------|------------------------------------------|-------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------|-------------|-------|-----------------|
| ltr                     | ecn no.  | dr  | date       | linear                                   | 0.X ±0.3    |            | projection                                                                            |  | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |                           |             |       |                 |
| H                       | V06-0061 | DCH | 2006-07-07 |                                          | 0.XX ±0.13  |            |                                                                                       |                                                                                       |                                                                     |                           |             |       |                 |
| J                       | V06-0868 | DCH | 2006-08-29 |                                          | .XXX ±.051  |            |                                                                                       |                                                                                       |                                                                     |                           |             |       |                 |
| K                       | V07-0174 | DCH | 2007-04-13 | angles                                   | 0° ±2°      |            |  | scale                                                                                 | product family                                                      |                           | METRAL 4000 | code  |                 |
| L                       | V07-0556 | DCH | 2007-08-22 | dr                                       | C. DAILY    | 2002-01-15 |                                                                                       |                                                                                       | size                                                                | dwg no                    | A           | 59566 | sheet<br>1 of 4 |
| M                       | V07-0696 | HTB | 2007-11-28 | enrg                                     | J. VOLSTROF | 2001-10-31 |                                                                                       |                                                                                       |                                                                     |                           |             |       |                 |
| -                       | -        | -   | -          | chr                                      | J. VOLSTROF | 2002-01-15 |                                                                                       |                                                                                       |                                                                     |                           |             |       |                 |
| G                       | V06-0498 | DCH | 2006-05-23 | appd                                     | J. VOLSTROF | 2002-01-15 | 1:1                                                                                   |                                                                                       |                                                                     |                           |             |       |                 |
| sheet                   | revision | M   | M          | M                                        | M           |            |                                                                                       |                                                                                       |                                                                     |                           |             |       |                 |
| index                   | sheet    | 1   | 2          | 3                                        | 4           |            |                                                                                       |                                                                                       |                                                                     |                           |             |       |                 |



PRODUCT NUMBER  
SEE SHEET 1



| PRESS-FIT HOLES                | OPTION 1             | OPTION 2             |
|--------------------------------|----------------------|----------------------|
| HOLE DIAMETER<br>AFTER PLATING | 0.45-0.55            | 0.48-0.57            |
| DRILLED HOLE                   | 0.60±0.02            | 0.60±0.02            |
| COPPER PLATING                 | 0.025 MIN-0.050 MAX. | 0.025 MIN-0.050 MAX. |
| SnPb PLATING                   | 0.005-0.015          | ---                  |



| mat'l code<br>SEE TABLE |                   |    |      | tolerances unless<br>otherwise specified |                        | CUSTOMER   |       | FCI<br>www.fciconnect.com |                |             |            |
|-------------------------|-------------------|----|------|------------------------------------------|------------------------|------------|-------|---------------------------|----------------|-------------|------------|
| ltr                     | ecn no.           | dr | date | linear                                   | 0.X ±0.3               | projection | COPY  | title                     | product family | METRAL 4000 | code       |
| M                       |                   |    |      |                                          | 0.XX ±0.13             |            |       |                           |                |             |            |
|                         |                   |    |      |                                          | .XXX ±.051             |            |       |                           |                |             |            |
|                         |                   |    |      | angles                                   | 0° ±2°                 |            |       |                           |                |             |            |
|                         |                   |    |      | dr                                       | C. DAILY 2002-01-15    | MM<br>2:1  | scale | A                         | size           | 59566       | sheet<br>2 |
|                         |                   |    |      | enr                                      | J. VOLSTROF 2001-10-31 |            |       |                           |                |             |            |
|                         |                   |    |      | chr                                      | J. VOLSTROF 2002-01-15 |            |       |                           |                |             |            |
|                         |                   |    |      | appd                                     | J. VOLSTROF 2002-01-15 |            |       |                           |                |             |            |
| sheet<br>index          | revision<br>sheet |    |      |                                          |                        |            |       |                           |                |             |            |

PRODUCT NUMBER

SEE SHEET 1

## NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-014 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.  
SEE PRODUCT SPECIFICATION GS-12-184.

2. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994

3. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.  
PIN MATERIAL: PHOSPHOR BRONZE  
GROUND SPRING MATERIAL: PHOSPHOR BRONZE  
STRIPLINE SHIELD MATERIAL: PHOSPHOR BRONZE

4. PLATING INFORMATION: PLATING ON CONTACT AREA MEETS PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1. PLATING ON "LF" TAILS IS Sn ONLY. ALL OTHERS ARE TIN-LEAD.

5. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.  
FOR USE WITH METRAL 4000 RECEPTACLES.

DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A,B,D,E  
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS C  
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROWS GND  
FOR USE WITH METRAL 1000 RECEPTACLES/  
DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A,B,C,D,E  
DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND

6. THE MIN PCB THICKNESS FOR FRONT PLUG-UP APPLICATIONS IS 1.6mm.

7. THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.

8. CURRENT RATING : 1 AMP PER PIN

9. TEMPERATURE RANGE : -55°C TO +105°C

10. P/N 59566-XXXXLF

LEAD FREE (OPTIONAL)  
SELECT LOAD PATTERN  
PLATING CODE

11. AVOID TRACES ON TOP OF BOARD DUE TO EXPOSED GROUND SHIELD.

12. FOR FRONT PLUG-UP APPLICATIONS, THE EVEN NUMBERED PINS IN ROW "C" CAN BE USED FOR POWER AS WELL AS GROUND. IF THE SURROUNDING PINS ARE NOT USED FOR POWER, THEN EACH PIN CAN CARRY 3 AMPS. IF THE SURROUNDING PINS ARE USED FOR POWER, THEN EACH PIN CAN CARRY 1 AMP. WHEN THE SURROUNDING PINS ARE USED ONLY FOR LOW SPEED SIGNALS, THEN THE EVEN NUMBERED "C" ROW PINS CAN ALSO BE USED FOR LOW SPEED SIGNALS.

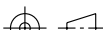
13. AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.

14. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

15. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.  
EXAMPLE: 59566-X001LF

16. EQUIVALENT PRECIOUS METAL PLATINGS MAY BE SUBSTITUTED.

|                         |         |                   |      |                                          |             |            |          |                                                                                       |                                                                                                             |                                                                     |       |             |      |
|-------------------------|---------|-------------------|------|------------------------------------------|-------------|------------|----------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|-------------|------|
| mat'l code<br>SEE TABLE |         |                   |      | tolerances unless<br>otherwise specified |             |            | CUSTOMER |                                                                                       | <br>www.fciconnect.com |                                                                     |       |             |      |
| ltr                     | ecn no. | dr                | date | linear                                   | 0.X ± 0.3   |            |          | COPY                                                                                  |                                                                                                             | title<br>VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |       |             |      |
| M                       |         |                   |      |                                          | 0.XX ± 0.13 |            |          | projection                                                                            |                                                                                                             |                                                                     |       |             |      |
|                         |         |                   |      |                                          | .XXX ± .051 |            |          |  |                                                                                                             |                                                                     |       |             |      |
|                         |         |                   |      | angles                                   | 0° ± 2°     |            |          |  |                                                                                                             | product family                                                      |       | METRAL 4000 | code |
|                         |         |                   |      | dr                                       | C. DAILY    | 2002-01-15 | size     |                                                                                       |                                                                                                             | dwg no                                                              |       | 213         |      |
|                         |         |                   |      | enrg                                     | J. VOLSTROF | 2001-10-31 | scale    |                                                                                       |                                                                                                             | A                                                                   |       | 59566       |      |
|                         |         |                   |      | chr                                      | J. VOLSTROF | 2002-01-15 | 1:1      |                                                                                       |                                                                                                             |                                                                     | sheet |             | 3    |
|                         |         |                   |      | appd                                     | J. VOLSTROF | 2002-01-15 |          |                                                                                       |                                                                                                             |                                                                     |       |             |      |
| sheet<br>index          |         | revision<br>sheet |      |                                          |             |            |          |                                                                                       |                                                                                                             |                                                                     |       |             |      |

Pro/E

3 |

cage code 22526

4

PDM: Rev:M

STATUS: Released

Printed: May 13, 2011



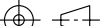
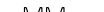


| SELECT LOAD PATTERNS                                 |     |          |    |    |    |    |    |
|------------------------------------------------------|-----|----------|----|----|----|----|----|
| METRAL<br>P/N                                        | ROW | PIN CODE |    |    |    |    |    |
|                                                      |     | 1        | 2  | 3  | 4  | 5  | 6  |
| 59566-X001<br><br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | D   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | C   | 04       | 02 | 04 | 02 | 04 | 03 |
|                                                      | B   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | A   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | GND | 02       | 02 | 02 | 02 | 02 | 02 |
| METRAL<br>P/N                                        | ROW | PIN CODE |    |    |    |    |    |
|                                                      |     | 1        | 2  | 3  | 4  | 5  | 6  |
| 59566-X002<br><br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03       | 03 | 03 | 03 | 03 | 03 |
|                                                      | D   | 02       | 03 | 03 | 03 | 03 | 02 |
|                                                      | C   | 04       | 04 | 04 | 04 | 04 | 04 |
|                                                      | B   | 03       | 03 | 03 | 03 | 03 | 03 |
|                                                      | A   | 03       | 03 | 03 | 03 | 03 | 03 |
|                                                      | GND | 02       | 02 | 02 | 02 | 02 | 02 |
| METRAL<br>P/N                                        | ROW | PIN CODE |    |    |    |    |    |
|                                                      |     | 1        | 2  | 3  | 4  | 5  | 6  |
| 59566-X003<br><br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | D   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | C   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | B   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | A   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | GND | -        | -  | -  | -  | -  | -  |
| METRAL<br>P/N                                        | ROW | PIN CODE |    |    |    |    |    |
|                                                      |     | 1        | 2  | 3  | 4  | 5  | 6  |
| 59566-X004<br><br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | D   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | C   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | B   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | A   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | GND | 02       | 02 | 02 | 02 | 02 | 02 |
| METRAL<br>P/N                                        | ROW | PIN CODE |    |    |    |    |    |
|                                                      |     | 1        | 2  | 3  | 4  | 5  | 6  |
| 59566-X005<br><br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | D   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | C   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | B   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | A   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | GND | -        | 02 | 02 | 02 | 02 | -  |
| METRAL<br>P/N                                        | ROW | PIN CODE |    |    |    |    |    |
|                                                      |     | 1        | 2  | 3  | 4  | 5  | 6  |
| 59566-X006<br><br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 03       | 02 | 02 | 02 | 02 | 02 |
|                                                      | D   | 03       | 02 | 02 | 02 | 02 | 02 |
|                                                      | C   | 03       | 02 | 02 | 02 | 02 | 02 |
|                                                      | B   | 03       | 02 | 02 | 02 | 02 | 02 |
|                                                      | A   | 03       | 02 | 02 | 02 | 02 | 02 |
|                                                      | GND | -        | 02 | 02 | 02 | 02 | -  |

| SELECT LOAD PATTERNS                                 |     |          |    |    |    |    |    |
|------------------------------------------------------|-----|----------|----|----|----|----|----|
| METRAL<br>P/N                                        | ROW | PIN CODE |    |    |    |    |    |
|                                                      |     | 1        | 2  | 3  | 4  | 5  | 6  |
| 59566-X007<br><br>SEE NOTE 15<br>LEAD FREE<br>OPTION | E   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | D   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | C   | 04       | 02 | 02 | 02 | 02 | 02 |
|                                                      | B   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | A   | 02       | 02 | 02 | 02 | 02 | 02 |
|                                                      | GND | -        | 02 | 02 | 02 | 02 | -  |

| PIN CODES | DIM A |
|-----------|-------|
| 01        | 5.00  |
| 02        | 5.75  |
| 03        | 6.50  |
| 04        | 7.25  |
| *19       | 8.00  |

\* CURRENTLY NOT AVAILABLE

|                      |                |      |             |                                       |                                                                                       |          |                                                                  |                                                                                                          |                                                                                       |
|----------------------|----------------|------|-------------|---------------------------------------|---------------------------------------------------------------------------------------|----------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| mat'l code SEE TABLE |                |      |             | tolerances unless otherwise specified |                                                                                       | CUSTOMER |                                                                  |  www.fciconnect.com |                                                                                       |
| ltr                  | ecn no.        | dr   | date        | linear                                | 0.X ±0.3                                                                              |          | COPY                                                             |                                                                                                          |  |
| M                    |                |      |             |                                       | 0.XX ±0.13                                                                            |          | projection                                                       |                                                                                                          |                                                                                       |
|                      |                |      |             |                                       | .XXX ±.051                                                                            |          |                                                                  |                                                                                                          |                                                                                       |
|                      |                |      |             | angles                                | 0° ±2°                                                                                |          | title VERTICAL SIGNAL HDR 5 ROW<br>P.F. 30 POS. SELECT LOAD STD. |                                                                                                          |                                                                                       |
|                      |                | dr   | C. DAILY    | 2002-01-15                            |  |          | product family METRAL 4000                                       |                                                                                                          | code                                                                                  |
|                      |                | enrg | J. VOLSTROF | 2001-10-31                            |                                                                                       |          | size                                                             | dwg no                                                                                                   | 213                                                                                   |
|                      |                | chr  | J. VOLSTORF | 2002-01-15                            | scale                                                                                 |          | A 59566                                                          |                                                                                                          | sheet                                                                                 |
|                      |                | appd | J. VOLSTROF | 2002-01-15                            | 1:1                                                                                   |          |                                                                  |                                                                                                          | 4                                                                                     |
| sheet index          | revision sheet |      |             |                                       |                                                                                       |          |                                                                  |                                                                                                          |                                                                                       |



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Электрон  
Связь**

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