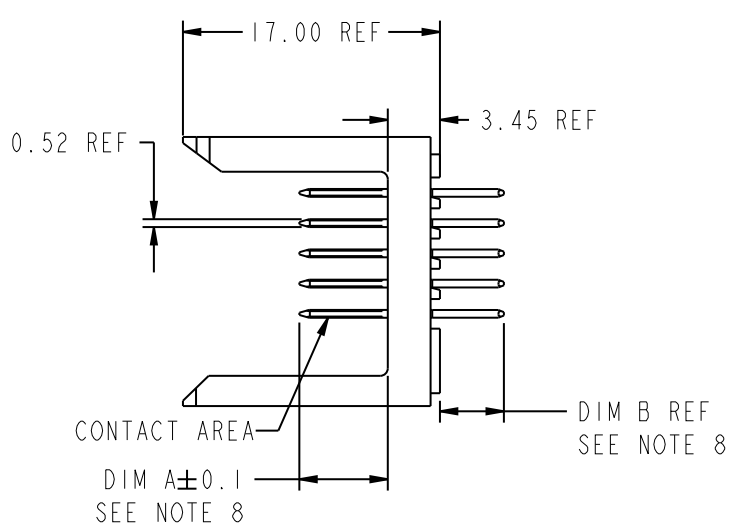
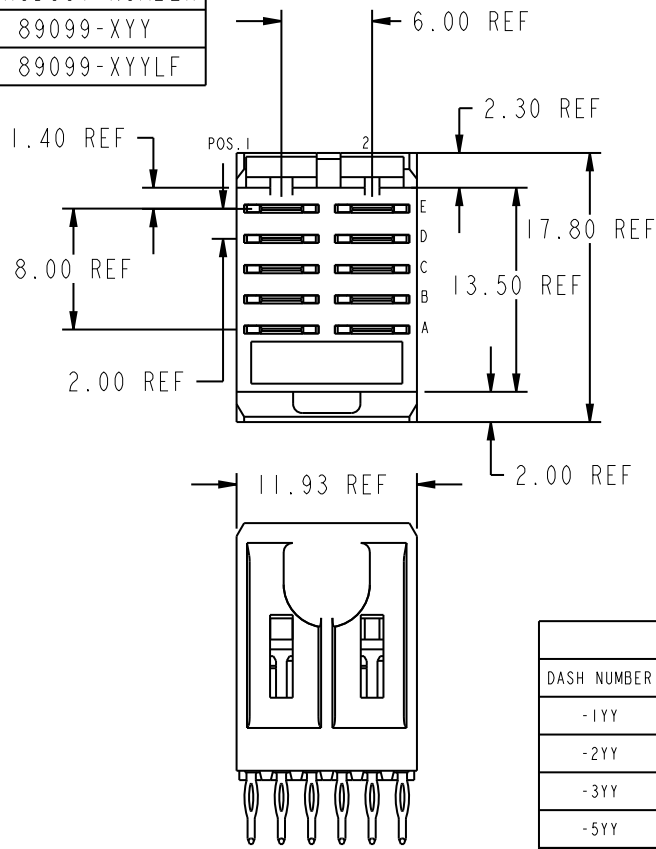


| |
|----------------|
| PRODUCT NUMBER |
| 89099-XYX |
| 89099-XYXLF |



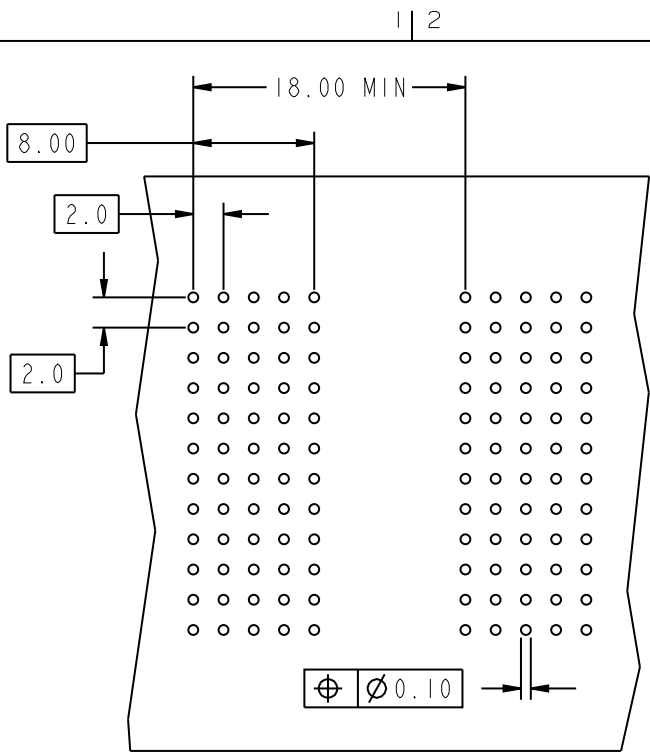
| PLATING IN CONTACT AREA | | |
|-------------------------|-----------------------------|------------|
| DASH NUMBER | PERFORMANCE LEVEL | NOTES |
| -1YY | TELCORDIA CO | - |
| -2YY | TELECOM CLASS | - |
| -3YY | IEC CLASS I | - |
| -5YY | TELCORDIA UE | - |
| -1YYLF | TELCORDIA CO IEC CLASS I | SEE NOTE 9 |
| -2YYLF | TELECOM CLASS | SEE NOTE 9 |
| -5YYLF | TELCORDIA UE | SEE NOTE 9 |

| | | | | | | | | | | | | |
|------------|-----------|-----|------------|---------------------------------------|------------|----------|----|--------------|------------|--|--|---------------|
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| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | | | projection | title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT | | |
| AN | V06-0493 | DAI | 2006-05-24 | | 0.XX ±0.13 | | | | | | | |
| AP | V06-0513 | DAI | V06-0513 | | .XXX ±.051 | | | | | | | |
| AR | DG09-0256 | TER | 2009-08-19 | angles | 0° ±2° | | | | MM | product family METRAL | | |
| - | - | - | - | dr | T.BRUNGARD | 11/19/99 | | code 213 | | | | |
| AK | V05-0395 | DAI | 04/26/05 | engr | M.STRAWSER | 11/19/99 | | | | | | size 89099 |
| AL | V05-0445 | DAI | 05/12/05 | chr | M.STRAWSER | 11/19/99 | | | | sheet 1 of 6 | | |
| AM | V05-0859 | DAI | 09/09/05 | appd | M.STRAWSER | 02/29/00 | | | | | | |
| sheet | revision | AR | AR | AR | AR | AR | AR | scale 2:1 | | | | |
| index | sheet | 1 | 2 | 3 | 4 | 5 | 6 | | | | | |

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REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR ADDITIONAL
PCB INFORMATION.

| KEY | | |
|------|--------------|--------------|
| CODE | DIMENSIONS | |
| | DIM "A" MATE | DIM "B" TAIL |
| P01 | 6.50 | 4.30 |
| P02 | 7.25 | 4.30 |
| P03 | 8.00 | 4.30 |
| P04 | 6.50 | 13.60 |
| P05 | 7.25 | 13.60 |
| P06 | 8.00 | 13.60 |
| P07 | 6.50 | 17.00 |
| P08 | 7.25 | 17.00 |
| P09 | 8.00 | 17.00 |
| P16 | 5.00 | 4.30 |
| P17 | 5.75 | 4.30 |

| | | | | | | | | | |
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| mat'l code | | | | tolerances unless otherwise specified | | CUSTOMER | | www.fcjconnect.com | |
| ltr | ecm no. | dr | date | linear | 0.X ±0.3 | COPY | | | title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT |
| AR | | | | | 0.XX ±0.13 | projection | | | |
| | | | | | .XXX ±.051 | | | | |
| | | | | angles | 0° ±2° | MM | | product family | METRAL |
| | | dr | T.BRUNGARD | 11/19/99 | scale | | 2:1 | code | 213 |
| | | enr | M.STRAWSER | 11/19/99 | size | | A | dwg no | 89099 |
| | | chr | M.STRAWSER | 11/19/99 | sheet | | 2 | | |
| | | appd | M.STRAWSER | 02/29/00 | cage code | | 22526 | | |
| sheet index | revision sheet | | | | | | | | |

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|---|-----|---------------------|-----|---|-----|---------------------|-----|---|-----|---------------------|-----|---|-----|---------------------|-----|---|---|-----|-----|
| METRAL P/N | ROW | CONTACT CODE MOD. 1 | | METRAL P/N | ROW | CONTACT CODE MOD. 1 | | METRAL P/N | ROW | CONTACT CODE MOD. 1 | | METRAL P/N | ROW | CONTACT CODE MOD. 1 | | | | | |
| | | 1 | 2 | | | 1 | 2 | | | 1 | 2 | | | 1 | 2 | | | | |
| 89099-X01 SEE NOTE 10 LEAD FREE OPTION | E | P16 | P16 | 89099-X05 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X11 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X15 SEE NOTE 10 LEAD FREE OPTION | E | P02 | P02 | | | | |
| | D | P16 | P16 | | D | P01 | P01 | | D | P02 | P02 | | D | P04 | P04 | | | | |
| | C | P16 | P16 | | C | P02 | P02 | | C | P01 | P01 | | C | P05 | P05 | | | | |
| | B | P16 | P16 | | B | P03 | P03 | | B | P01 | P01 | | B | P06 | P06 | | | | |
| | A | P16 | P16 | | A | P03 | P03 | | A | P01 | P01 | | A | P05 | P05 | | | | |
| 89099-X02 SEE NOTE 10 LEAD FREE OPTION | E | P16 | P16 | 89099-X06 SEE NOTE 10 LEAD FREE OPTION | E | P17 | P17 | 89099-X12 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X16 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X21 SEE NOTE 10 LEAD FREE OPTION | E | P04 | P04 |
| | D | P16 | P16 | | D | P17 | P17 | | D | P01 | P01 | | D | P04 | P04 | | D | P04 | P04 |
| | C | P16 | P16 | | C | P17 | P17 | | C | P01 | P01 | | C | P02 | P02 | | C | P04 | P04 |
| | B | P16 | P16 | | B | P17 | P17 | | B | P03 | P03 | | B | P02 | P02 | | B | P04 | P04 |
| | A | P01 | P01 | | A | P17 | P17 | | A | P01 | P01 | | A | P03 | P03 | | A | P04 | P04 |
| 89099-X03 SEE NOTE 10 LEAD FREE OPTION | E | P17 | P17 | 89099-X07 SEE NOTE 10 LEAD FREE OPTION | E | P02 | P02 | 89099-X13 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X17 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X22 SEE NOTE 10 LEAD FREE OPTION | E | P04 | P04 |
| | D | P01 | P01 | | D | P02 | P02 | | D | P01 | P01 | | D | P01 | P01 | | D | P04 | P04 |
| | C | P17 | P17 | | C | P02 | P02 | | C | P02 | P02 | | C | P01 | P01 | | C | P04 | P04 |
| | B | P17 | P17 | | B | P02 | P02 | | B | P03 | P03 | | B | P01 | P01 | | B | P06 | P06 |
| | A | P01 | P01 | | A | P02 | P02 | | A | P03 | P03 | | A | P03 | P03 | | A | P04 | P04 |
| 89099-X04 SEE NOTE 10 LEAD FREE OPTION | E | P17 | P17 | 89099-X10 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X14 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | 89099-X18 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X23 SEE NOTE 10 LEAD FREE OPTION | E | P04 | P04 |
| | D | P17 | P17 | | D | P01 | P01 | | D | P03 | P03 | | D | P01 | P01 | | D | P04 | P04 |
| | C | P17 | P17 | | C | P02 | P02 | | C | P03 | P03 | | C | P03 | P03 | | C | P05 | P05 |
| | B | P02 | P02 | | B | P03 | P03 | | B | P03 | P03 | | B | P03 | P03 | | B | P06 | P06 |
| | A | P17 | P17 | | A | P02 | P02 | | A | P03 | P03 | | A | P03 | P03 | | A | P06 | P06 |

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| ltr | ecr no. | dr | date | linear | 0.X ±0.3 | | COPY | | projection | title | | | |
| AR | | | | | 0.XX ±0.13 | | MM | | | METRAL POWER HEADER | | | |
| | | | | | .XXX ±.051 | | 2:1 | | | 1 MOD, 5 ROW PRESS-FIT | | | |
| | | | | angles | 0° ±2° | | scale | | product family | | code | | |
| | | | | dr | T.BRUNGARD | 11/19/99 | | | METRAL | | 213 | | |
| | | | | engr | M.STRAWSER | 11/19/99 | | | size | | sheet | | |
| | | | | chr | M.STRAWSER | 11/19/99 | | | A | | 89099 | | |
| | | | | appd | M.STRAWSER | 02/29/00 | | | | | 3 | | |
| sheet index | revision sheet | | | | | | | | | | | | |
| | | | | Pro/E | | | | 3 | | cage code | | 22526 | |
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| METRAL P/N | ROW | CONTACT CODE MOD. I | | METRAL P/N | ROW | CONTACT CODE MOD. I | | METRAL P/N | ROW | CONTACT CODE MOD. I | | METRAL P/N | ROW | CONTACT CODE MOD. I | | | | | | | | |
| | | 1 | 2 | | | 1 | 2 | | | 1 | 2 | | | 1 | 2 | | | | | | | |
| 89099-X24 SEE NOTE 10 LEAD FREE OPTION | E | P06 | P06 | 89099-X28 SEE NOTE 10 LEAD FREE OPTION | E | P04 | P04 | 89099-X33 SEE NOTE 10 LEAD FREE OPTION | E | P07 | P07 | 89099-X37 SEE NOTE 10 LEAD FREE OPTION | E | P07 | P07 | 89099-X41 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | | | |
| | D | P06 | P06 | | D | P04 | P04 | | D | P07 | P07 | | D | P07 | P07 | | D | P03 | P03 | | | |
| | C | P06 | P06 | | C | P06 | P06 | | C | P08 | P08 | | C | P07 | P07 | | C | P03 | P03 | C | P03 | P03 |
| | B | P06 | P06 | | B | P06 | P06 | | B | P09 | P09 | | B | P07 | P07 | | B | P03 | P03 | B | P03 | P03 |
| | A | P06 | P06 | | A | P06 | P06 | | A | P09 | P09 | | A | P09 | P09 | | A | P09 | P09 | A | P02 | P02 |
| 89099-X25 SEE NOTE 10 LEAD FREE OPTION | E | P05 | P05 | 89099-X30 SEE NOTE 10 LEAD FREE OPTION | E | P07 | P07 | 89099-X34 SEE NOTE 10 LEAD FREE OPTION | E | P09 | P09 | 89099-X38 SEE NOTE 10 LEAD FREE OPTION | E | P07 | P07 | 89099-X42 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | | | |
| | D | P05 | P05 | | D | P07 | P07 | | D | P09 | P09 | | D | P07 | P07 | | D | P02 | P02 | | | |
| | C | P05 | P05 | | C | P08 | P08 | | C | P09 | P09 | | C | P09 | P09 | | C | P02 | P02 | | | |
| | B | P05 | P05 | | B | P09 | P09 | | B | P09 | P09 | | B | P09 | P09 | | B | P02 | P02 | | | |
| | A | P05 | P05 | | A | P08 | P08 | | A | P09 | P09 | | A | P09 | P09 | | A | P01 | P01 | | | |
| 89099-X26 SEE NOTE 10 LEAD FREE OPTION | E | P04 | P04 | 89099-X31 SEE NOTE 10 LEAD FREE OPTION | E | P07 | P07 | 89099-X35 SEE NOTE 10 LEAD FREE OPTION | E | P08 | P08 | 89099-X39 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | 89099-X43 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | | | |
| | D | P04 | P04 | | D | P07 | P07 | | D | P08 | P08 | | D | P01 | P01 | | D | P03 | P03 | | | |
| | C | P05 | P05 | | C | P07 | P07 | | C | P08 | P08 | | C | P01 | P01 | | C | P03 | P03 | | | |
| | B | P05 | P05 | | B | P07 | P07 | | B | P08 | P08 | | B | P01 | P01 | | B | P02 | P02 | | | |
| | A | P06 | P06 | | A | P07 | P07 | | A | P08 | P08 | | A | P01 | P01 | | A | P02 | P02 | | | |
| 89099-X27 SEE NOTE 10 LEAD FREE OPTION | E | P04 | P04 | 89099-X32 SEE NOTE 10 LEAD FREE OPTION | E | P07 | P07 | 89099-X36 SEE NOTE 10 LEAD FREE OPTION | E | P07 | P07 | 89099-X40 SEE NOTE 10 LEAD FREE OPTION | E | P02 | P02 | 89099-X44 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | | | |
| | D | P04 | P04 | | D | P07 | P07 | | D | P07 | P07 | | D | P01 | P01 | | D | P03 | P03 | | | |
| | C | P04 | P04 | | C | P07 | P07 | | C | P08 | P08 | | C | P02 | P02 | | C | P03 | P03 | | | |
| | B | P04 | P04 | | B | P09 | P09 | | B | P08 | P08 | | B | P01 | P01 | | B | P16 | P16 | | | |
| | A | P06 | P06 | | A | P07 | P07 | | A | P09 | P09 | | A | P02 | P02 | | A | P03 | P03 | | | |

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| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | COPY | | projection | title | | | |
| AR | | | 0.XX ±0.13 | | MM | | METRAL POWER HEADER | | | | | | |
| | | | .XXX ±.051 | | 2:1 | | 1 MOD, 5 ROW PRESS-FIT | | | | | | |
| | | | | angles | 0° ±2° | | scale | | product family | | code | | |
| | | | | dr | T.BRUNGARD | 11/19/99 | | | METRAL | | 213 | | |
| | | | | engr | M.STRAWSER | 11/19/99 | | | size | | sheet | | |
| | | | | chr | M.STRAWSER | 11/19/99 | | | A | | 4 | | |
| | | | | appd | M.STRAWSER | 02/29/00 | | | 89099 | | | | |
| sheet index | revision sheet | | | | | | | | | cage code | 22526 | | |



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|---|-----|---------------------|-----|---|-----|---------------------|-----|---|-----|---------------------|-----|---|-----|---------------------|-----|---|---|-----|-----|
| METRAL P/N | ROW | CONTACT CODE MOD. I | | METRAL P/N | ROW | CONTACT CODE MOD. I | | METRAL P/N | ROW | CONTACT CODE MOD. I | | METRAL P/N | ROW | CONTACT CODE MOD. I | | | | | |
| | | 1 | 2 | | | 1 | 2 | | | 1 | 2 | | | 1 | 2 | | | | |
| 89099-X45 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | 89099-X49 SEE NOTE 10 LEAD FREE OPTION | E | P02 | P02 | 89099-X53 SEE NOTE 10 LEAD FREE OPTION | E | P05 | P05 | 89099-X57 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | | | | |
| | D | P02 | P02 | | D | P03 | P03 | | D | P05 | P05 | | D | P01 | P01 | 89099-X61 SEE NOTE 10 LEAD FREE OPTION | D | P03 | P03 |
| | C | P17 | P17 | | C | P03 | P03 | | C | P06 | P06 | | C | P01 | P01 | | C | P02 | P02 |
| | B | P17 | P17 | | B | P03 | P03 | | B | P04 | P04 | | B | P01 | P01 | | B | P01 | P01 |
| | A | P17 | P17 | | A | P02 | P02 | | A | P04 | P04 | | A | P03 | P03 | | A | P01 | P01 |
| | | | | | | | | | | | | | | | | | | | |
| 89099-X46 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | 89099-X50 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X54 SEE NOTE 10 LEAD FREE OPTION | E | P02 | P02 | 89099-X58 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X62 SEE NOTE 10 LEAD FREE OPTION | E | P06 | P06 |
| | D | P03 | P03 | | D | P01 | P01 | | D | P02 | P02 | | D | P03 | P03 | | D | P05 | P05 |
| | C | P01 | P01 | | C | P03 | P03 | | C | P03 | P03 | | C | P01 | P01 | | C | P05 | P05 |
| | B | P03 | P03 | | B | P01 | P01 | | B | P01 | P01 | | B | P03 | P03 | | B | P06 | P06 |
| | A | P01 | P01 | | A | P01 | P01 | | A | P01 | P01 | | A | P01 | P01 | | A | P05 | P05 |
| 89099-X47 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X51 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X55 SEE NOTE 10 LEAD FREE OPTION | E | P02 | P02 | 89099-X59 SEE NOTE 10 LEAD FREE OPTION | E | P16 | P16 | 89099-X63 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 |
| | D | P01 | P01 | | D | P01 | P01 | | D | P02 | P02 | | D | P03 | P03 | | D | P02 | P02 |
| | C | P02 | P02 | | C | P16 | P16 | | C | P02 | P02 | | C | P03 | P03 | | C | P01 | P01 |
| | B | P03 | P03 | | B | P01 | P01 | | B | P03 | P03 | | B | P03 | P03 | | B | P02 | P02 |
| | A | P02 | P02 | | A | P01 | P01 | | A | P03 | P03 | | A | P03 | P03 | | A | P03 | P03 |
| 89099-X48 SEE NOTE 10 LEAD FREE OPTION | E | P04 | P04 | 89099-X52 SEE NOTE 10 LEAD FREE OPTION | E | P03 | P03 | 89099-X56 SEE NOTE 10 LEAD FREE OPTION | E | P05 | P05 | 89099-X60 SEE NOTE 10 LEAD FREE OPTION | E | P01 | P01 | 89099-X64 SEE NOTE 10 LEAD FREE OPTION | E | P02 | P02 |
| | D | P04 | P04 | | D | P02 | P02 | | D | P05 | P05 | | D | P01 | P01 | | D | P02 | P02 |
| | C | P06 | P06 | | C | P03 | P03 | | C | P05 | P05 | | C | P03 | P03 | | C | P01 | P01 |
| | B | P04 | P04 | | B | P03 | P03 | | B | P05 | P05 | | B | P03 | P03 | | B | P03 | P03 |
| | A | P04 | P04 | | A | P03 | P03 | | A | P04 | P04 | | A | P01 | P01 | | A | P01 | P01 |
| 89099-X65 SEE NOTE 10 LEAD FREE OPTION | E | P17 | P17 | | | | | | | | | | | | | | | | |
| | D | P03 | P03 | | | | | | | | | | | | | | | | |
| | C | P03 | P03 | | | | | | | | | | | | | | | | |
| | B | P03 | P03 | | | | | | | | | | | | | | | | |
| | A | P03 | P03 | | | | | | | | | | | | | | | | |

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| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | | COPY | | projection | title | | METRAL POWER HEADER | |
| AR | | | | | 0.XX ±0.13 | | MM | | | I MOD, 5 ROW PRESS-FIT | | product family | |
| | | | | | .XXX ±.051 | | 2:1 | | | METRAL | | code | |
| | | | | angles | 0° ±2° | | scale | | A | | 213 | | |
| | | | | dr | T.BRUNGARD | 11/19/99 | | | | | size | | |
| | | | | engr | M.STRAWSER | 11/19/99 | | | | | 89099 | | |
| | | | | chr | M.STRAWSER | 11/19/99 | | | | | sheet | | |
| | | | | appd | M.STRAWSER | 02/29/00 | | | | | 5 | | |
| sheet index | revision sheet | | | | | | | | | | | | |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | |
|-------------|-----|---------------------|-----|
| | | 1 | 2 |
| 89099-X66 | E | P17 | P17 |
| | D | P17 | P17 |
| ----- | C | P02 | P02 |
| 89099-X66LF | B | P02 | P02 |
| | A | P17 | P17 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | |
|-------------|-----|---------------------|-----|
| | | 1 | 2 |
| 89099-X67 | E | P01 | P01 |
| | D | P02 | P02 |
| ----- | C | P02 | P02 |
| 89099-X67LF | B | P03 | P03 |
| | A | P03 | P03 |

| METRAL P/N | ROW | CONTACT CODE MOD. 1 | |
|-------------|-----|---------------------|-----|
| | | 1 | 2 |
| 89099-X68 | E | P01 | P01 |
| | D | P02 | P02 |
| ----- | C | P02 | P02 |
| 89099-X68LF | B | P02 | P02 |
| | A | P03 | P03 |

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:
89099 -XXX IS SnPb
89099-XYLFF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES. IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P" WILL BE ADDED TO THE END OF THE PART NUMBER. EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180
APPLICATION SPECIFICATION BUS-20-075
- 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.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 89099-X01LF
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN CONVECTION, INFAR-RED OR VAPOR PHASE REFLOW OVEN.



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| | | | | | | | | | |
|-------------|----------------|------|------------|---------------------------------------|------------|---------------------|----------------|------------------------|--------|
| mat'l code | | | | tolerances unless otherwise specified | | CUSTOMER | | www.fciconnect.com | |
| ltr | ecn no. | dr | date | linear | 0.X ±0.3 | COPY | | projection | |
| AR | | | | | 0.XX ±0.13 | title | | | |
| | | | | | .XXX ±.051 | METRAL POWER HEADER | | | |
| | | | | angles | 0° ±2° | | | I MOD, 5 ROW PRESS-FIT | |
| | | dr | T.BRUNGARD | 11/19/99 | MM | | product family | | METRAL |
| | | engr | M.STRAWSER | 11/19/99 | | | code | | 213 |
| | | chr | M.STRAWSER | 11/19/99 | scale | | size | | dwg no |
| | | appd | M.STRAWSER | 02/29/00 | 1:1 | | A | | 89099 |
| sheet index | revision sheet | | | | | | | | sheet |
| | | | | | | | | | 6 |

cage code 22526