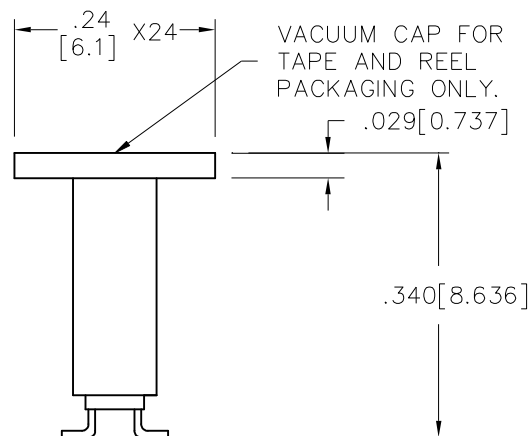
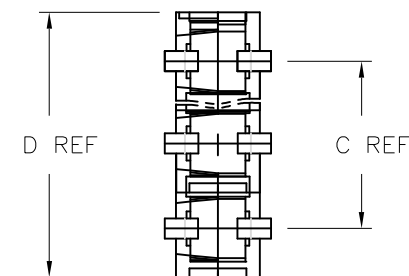
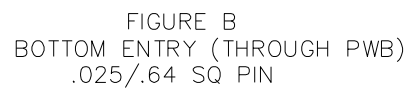
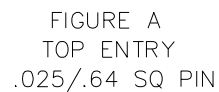


—BASE PART NUMBER





|                    |  |          |  |                                       |  |                                  |  |                                                                                                     |  |                                                        |  |  |  |
|--------------------|--|----------|--|---------------------------------------|--|----------------------------------|--|-----------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|--|--|
| mat'l. code        |  |          |  | surface<br>ISO 1302 ✓                 |  | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br> |  | product family<br>DUBOX                                |  |  |  |
| ltr ecn no dr date |  |          |  | tolerances unless otherwise specified |  |                                  |  | <br>scale 1: 1 |  | title<br>DUBOX SURFACE MOUNT S/R<br>VERTICAL CARD CONN |  |  |  |
| X                  |  |          |  | angles                                |  | linear                           |  |                                                                                                     |  |                                                        |  |  |  |
|                    |  |          |  |                                       |  |                                  |  |                                                                                                     |  |                                                        |  |  |  |
|                    |  |          |  | 0±2°                                  |  |                                  |  |                                                                                                     |  |                                                        |  |  |  |
|                    |  |          |  | dr                                    |  | J.SHREINER                       |  | 11/07/90                                                                                            |  | dwg no<br>sheet 2 of 5<br>size<br>68402<br>A3          |  |  |  |
|                    |  |          |  | enr                                   |  | M.HAHN                           |  | 11/07/90                                                                                            |  |                                                        |  |  |  |
|                    |  |          |  | chr                                   |  | M.HAHN                           |  | 11/07/90                                                                                            |  |                                                        |  |  |  |
|                    |  |          |  | ppd                                   |  | M.HAHN                           |  | 11/07/90                                                                                            |  |                                                        |  |  |  |
| sheet index        |  | revision |  |                                       |  |                                  |  |                                                                                                     |  | type Product Customer Drawing                          |  |  |  |
| sheet              |  | sheet    |  |                                       |  |                                  |  |                                                                                                     |  |                                                        |  |  |  |



Amphenol  
FCI

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|                       |                                                    |                                           |                           |          |
|-----------------------|----------------------------------------------------|-------------------------------------------|---------------------------|----------|
| PRODUCT NO<br>NOTE 14 | PLATING CONTACT AREA<br>NOTE 16                    | PLATING SOLDER TAIL                       | MATERIAL<br>REF.          | OBSOLETE |
| 68402-2XX             | 15u"/.38u Au OR GXT MIN OVER 50u"/1.27u NI MIN     | 100u"/160u" SN<br>2.54u/4.06u             | NOTE 3 & 4                |          |
| 68402-3XX             | 30u"/.76u Au OR GXT MIN OVER 50u"/1.27u NI MIN     | 100u"/160u" SN<br>2.54u/4.06u             | NOTE 3 & 4                |          |
| 68402-4XX             | 100u"/2.54u Sn MIN OVER 50u"/1.27u NI              | 100u"/160u" SN<br>2.54u/4.06u             | NOTE 3 & 4                |          |
| 68402-6XX             | 30u"/.76u Au OR GXT MIN OVER 50u"/1.27u NI MIN     | 100u"/160u" SN<br>2.54u/4.06u             | NOTE 3 & 4                |          |
| <del>68402-8XX</del>  | <del>30u"/.76u Au MIN OVER 50u"/1.27u NI MIN</del> | <del>100u"/160u" SN<br/>2.54u/4.06u</del> | <del>NOTE 3 &amp; 4</del> |          |

|             |                |    |      |                                       |                                  |                |                                               |        |  |                          |
|-------------|----------------|----|------|---------------------------------------|----------------------------------|----------------|-----------------------------------------------|--------|--|--------------------------|
| mat'l. code |                |    |      | surface<br>ISO 1302 ✓                 | tolerance<br>ISO 406<br>ISO 1101 | projection<br> | product family<br>DUBOX                       |        |  |                          |
| ltr         | ecn no         | dr | date | tolerances unless otherwise specified |                                  |                | title                                         |        |  |                          |
| X           |                |    |      | angles                                | linear                           |                | DUBOX SURFACE MOUNT S/R<br>VERTICAL CARD CONN |        |  |                          |
|             |                |    |      |                                       |                                  |                | scale 1:1                                     |        |  |                          |
|             |                |    |      | dr                                    | J.SHREINER                       | 11/07/90       | Amphenol<br>FCI                               | dwg no |  | sheet 3 of 5             |
|             |                |    |      | enr                                   | M.HAHN                           | 11/07/90       |                                               | 68402  |  | size                     |
|             |                |    |      | chr                                   | M.HAHN                           | 11/07/90       |                                               |        |  | A3                       |
|             |                |    |      | appd                                  | M.HAHN                           | 11/07/90       |                                               | type   |  | Product Customer Drawing |
| sheet index | revision sheet |    |      |                                       |                                  |                |                                               |        |  |                          |

SEE TABLE



FIGURE 2  
TAPE & REEL PACKAGING

NOTES:

1. TERMINAL MATERIAL: PHOSPHOR BRONZE. EXTRA HARD
2. RECOMMENDED APPLICATION DATA:
  - A. RECOMMENDED SOLDER PAD PATTERN IS SHOWN IN FIGURE A & B.
  - B. ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF GIVEN TERMINAL SPACING. WITHIN .015/.38 DIA. (THERE IS A SPECIAL MATING PIN IS .016/.40. IT IS ONLY FOR P/N 68402-402WLF).
  - C. SUGGESTED MATING PIN LENGTH .210±.010 [5.33±.51]
3. HOUSING MATERIAL: P.P.S., FILLED.  
FLAME RETARDANT PER UL 94 V-0.  
THIS PART WILL WITHSTAND EXPOSURES TO 260°C  
PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER,  
INFRA-RED OR VAPOR PHASE SOLDER PROCESS.
4. PRESTAMPED POST PLATED TERMINAL.
5. FCI, FCI PART NUMBER AND DATE CODE  
TO BE MARKED ON TUBE LABEL.
6. ADD SUFFIX 'P' TO DASH NUMBER AS FOURTH DIGIT FOR  
TAPE & REEL PACKAGING.  
ADD SUFFIX 'W' TO DASH NUMBER AS WITHOUT CAP ASSEMBLY  
FOR TAPE & REEL PACKAGING( IT IS CUSTOMIZED, WHICH HAS SPECIAL  
MATING PIN 0.016/.40 AND ONLY FOR SPECIAL P/N 68402-402WLF).
7. TAPE AND REEL PACKAGING PER GES-14-334.
8. VACUUM CAP MATERIAL: L.C.P, FLAME RETARDANT UL 94 V-0.  
COLOR: BLACK
9. TAPE AND REEL PACKAGING FOR 24mm WIDE AND BELOW HAVE  
PILOT HOLES ON ONE SIDE OF TAPE ONLY. SIZES ABOVE 24mm  
HAVE PILOT HOLES ON BOTH SIDES OF TAPE.
10. TAPE & REEL PACKAGING 32mm TAPE WIDTH, WITH 12mm POCKET PITCH.
11. MAXIMUM LENGTH OF CONNECTOR FOR TAPE AND REEL PACKAGING IS  
2.50 INCHES LONG /63.5mm
12. PART NUMBER WITH "U" SUFFIX IS FOR SAWING PURPOSES ONLY.
13. STANDARD TUBE PACKAGE PER BUS-14-097/3.
14. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
15. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY  
REGULATION AS DESCRIBED IN GS-22-008.
16. PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

|                    |  |                |  |                                       |  |                                  |  |                                                                                                               |  |                                                        |  |  |  |
|--------------------|--|----------------|--|---------------------------------------|--|----------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|--|--|
| mat'l. code        |  |                |  | surface<br>ISO 1302 ✓                 |  | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br>           |  | product family<br>DUBOX                                |  |  |  |
| ltr ecn no dr date |  |                |  | tolerances unless otherwise specified |  |                                  |  | <br>INCH/MM<br>scale 1:1 |  | title<br>DUBOX SURFACE MOUNT S/R<br>VERTICAL CARD CONN |  |  |  |
| X                  |  |                |  | angles                                |  | linear                           |  |                                                                                                               |  |                                                        |  |  |  |
|                    |  |                |  |                                       |  |                                  |  |                                                                                                               |  |                                                        |  |  |  |
|                    |  |                |  | 0±2°                                  |  |                                  |  |                                                                                                               |  |                                                        |  |  |  |
|                    |  |                |  | dr                                    |  | J.SHREINER                       |  | 11/07/90                                                                                                      |  | dwg no<br>sheet 4 of 5<br>size<br>68402<br>A3          |  |  |  |
|                    |  |                |  | enr                                   |  | M.HAHN                           |  | 11/07/90                                                                                                      |  |                                                        |  |  |  |
|                    |  |                |  | chr                                   |  | M.HAHN                           |  | 11/07/90                                                                                                      |  |                                                        |  |  |  |
|                    |  |                |  | appd                                  |  | M.HAHN                           |  | 11/07/90                                                                                                      |  |                                                        |  |  |  |
| sheet index        |  | revision sheet |  |                                       |  |                                  |  |                                                                                                               |  |                                                        |  |  |  |

| PRODUCT NO.   | NO. OF POSITIONS | C DIM        | D DIM        | TAPE & REEL PACKAGING | LF OPTIONS    |
|---------------|------------------|--------------|--------------|-----------------------|---------------|
| 68402-Y02     | 1 X 2            | .100/2.540   | .217/5.511   | NO                    | NOTE 14       |
| -Y03          | 1 X 3            | .200/5.080   | .317/8.051   | NO                    |               |
| -Y04          | 1 X 4            | .300/7.620   | .417/10.591  | NO                    |               |
| -Y05          | 1 X 5            | .400/10.160  | .517/13.131  | NO                    |               |
| -Y06          | 1 X 6            | .500/12.700  | .617/15.671  | NO                    |               |
| -Y07          | 1 X 7            | .600/15.240  | .717/18.211  | NO                    |               |
| -Y08          | 1 X 8            | .700/17.780  | .817/20.751  | NO                    |               |
| -Y09          | 1 X 9            | .800/20.320  | .917/23.291  | NO                    |               |
| -Y10          | 1 X 10           | .900/22.860  | 1.017/25.831 | NO                    |               |
| -Y11          | 1 X 11           | 1.000/25.400 | 1.117/28.371 | NO                    |               |
| -Y12          | 1 X 12           | 1.100/27.940 | 1.217/30.911 | NO                    |               |
| -Y13          | 1 X 13           | 1.200/30.480 | 1.317/33.451 | NO                    |               |
| -Y14          | 1 X 14           | 1.300/33.020 | 1.417/35.991 | NO                    |               |
| -Y15          | 1 X 15           | 1.400/35.560 | 1.517/38.531 | NO                    |               |
| -Y16          | 1 X 16           | 1.500/38.100 | 1.617/41.071 | NO                    |               |
| -Y17          | 1 X 17           | 1.600/40.640 | 1.717/43.611 | NO                    |               |
| -Y18          | 1 X 18           | 1.700/43.180 | 1.817/46.151 | NO                    |               |
| -Y19          | 1 X 19           | 1.800/45.720 | 1.917/48.691 | NO                    |               |
| -Y20          | 1 X 20           | 1.900/48.260 | 2.017/51.231 | NO                    |               |
| -Y21          | 1 X 21           | 2.000/50.800 | 2.117/53.771 | NO                    |               |
| -Y22          | 1 X 22           | 2.100/53.340 | 2.217/56.311 | NO                    |               |
| -Y23          | 1 X 23           | 2.200/55.880 | 2.317/58.851 | NO                    |               |
| -Y24          | 1 X 24           | 2.300/58.420 | 2.417/61.391 | NO                    |               |
| -Y25          | 1 X 25           | 2.400/60.960 | 2.517/63.931 | NO                    |               |
| 68402-Y26     | 1 X 26           | 2.500/63.50  | 2.617/66.47  | NO                    |               |
| 68402-Y26U    | 1 X 26           | 2.500/63.50  | 2.617/66.47  | NO                    |               |
| 68402-Y06P    | 1 X 6            | .500/12.700  | .617/15.671  | YES                   |               |
| 68402-Y27-Y50 | — —              | — — — — —    | — — — — —    | — — — NO — — —        | NOT AVAILABLE |

NOTE 12  
NOTE 6

|             |        |                |      |                                       |            |                                  |  |                                                                                                     |                                                                                       |                                                        |              |      |  |
|-------------|--------|----------------|------|---------------------------------------|------------|----------------------------------|--|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------|--------------|------|--|
| mat'l. code |        |                |      | surface<br>ISO 1302 ✓                 |            | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br> |                                                                                       | product family<br>DUBOX                                |              |      |  |
| ltr         | ecn no | dr             | date | tolerances unless otherwise specified |            |                                  |  |                                                                                                     |  | title<br>DUBOX SURFACE MOUNT S/R<br>VERTICAL CARD CONN |              |      |  |
| x           |        |                |      | angles                                | linear     | .XX±01/ X±3                      |  |                                                                                                     |                                                                                       |                                                        |              |      |  |
|             |        |                |      |                                       |            | .XXX±0.005/ .XX±13               |  |                                                                                                     |                                                                                       |                                                        |              |      |  |
|             |        |                |      | 0°±2°                                 |            | .XXXX±0.002/ .XXX±.051           |  | scale 1:1                                                                                           |                                                                                       |                                                        |              |      |  |
|             |        |                |      | dr                                    | J.SHREINER | 11/07/90                         |  |                | dwg no                                                                                |                                                        | sheet 5 of 5 | size |  |
|             |        |                |      | enr                                   | M.HAHN     | 11/07/90                         |  |                                                                                                     | 68402                                                                                 |                                                        |              | A3   |  |
|             |        |                |      | chr                                   | M.HAHN     | 11/07/90                         |  |                                                                                                     |                                                                                       |                                                        |              |      |  |
|             |        |                |      | appd                                  | M.HAHN     | 11/07/90                         |  |                                                                                                     |                                                                                       |                                                        |              |      |  |
| sheet index |        | revision sheet |      |                                       |            |                                  |  |                                                                                                     |                                                                                       |                                                        |              |      |  |