



PRODUCT NUMBER  
 SEE SHEET 7

## TECHNICAL SPECIFICATIONS

## BODY CARRIED PIN

| PARAMETER                             | SPECIFICATION                                                                                                                                                                |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONTACT:<br>BASE METAL                | COPPER-NICKEL-TIN ALLOY(C72500)                                                                                                                                              |
| FINISHES:                             |                                                                                                                                                                              |
| CONTACT SURFACES:                     | <del>GXT</del> 30u" MIN Au FLASHED PD Ni ON Ni<br><del>GOLD</del> 40u" MIN Au ON Ni<br><del>NXT</del> 6u" MIN Au ON 50u" MIN Ni Alloy<br><del>NICKEL</del> 50u" MIN Ni Alloy |
| COMPLIANT SECTION                     | SOLDER ELECTROPLATE                                                                                                                                                          |
| DIMENSIONS                            | 0.025 in square (crowned)                                                                                                                                                    |
| RECOMMENDED PLATED THROUGH HOLES SIZE | 0.041 in. +0.003 in ./-0.002 in                                                                                                                                              |
| INSERTION FORCE                       | 45 lb. (maximum)                                                                                                                                                             |
| RETENTION FORCE                       | 9 lb.(minimum)                                                                                                                                                               |
| OPERATING TEMPERATURE                 | -55°C to +85° C                                                                                                                                                              |
| CENTER SPACING                        | 0.125 in.                                                                                                                                                                    |
| LUBRICATION                           | polyphenylether                                                                                                                                                              |

 NOT AVAILABLE  
 NOT AVAILABLE

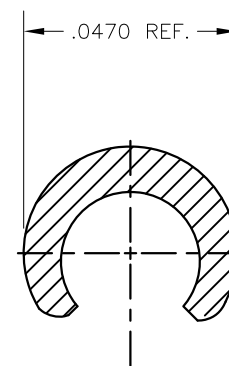
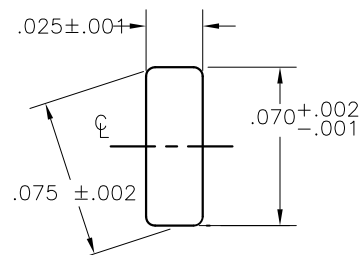
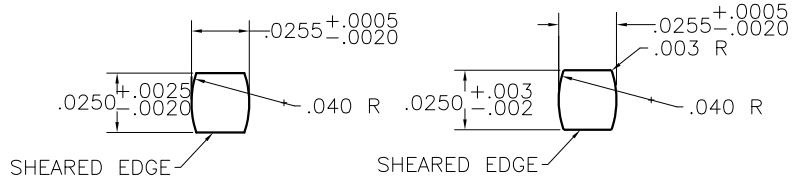
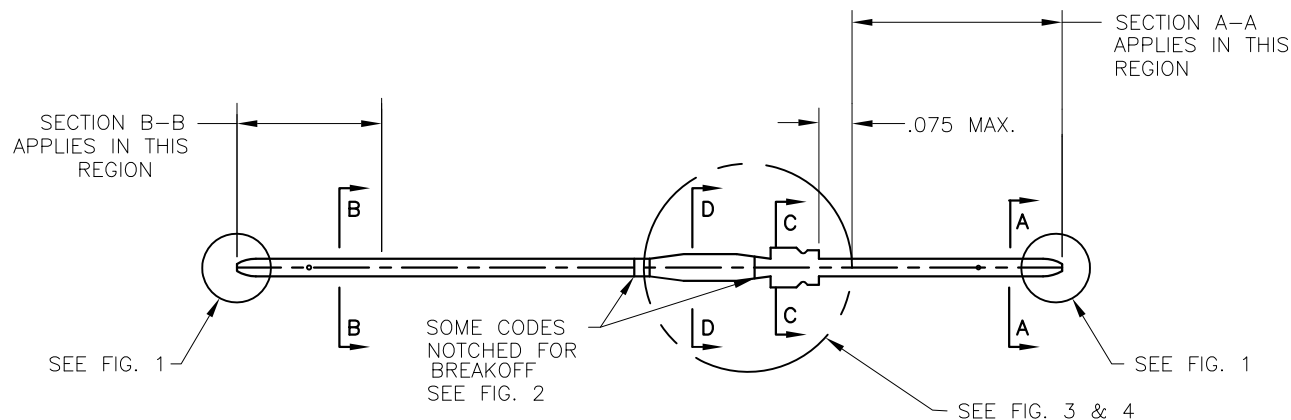
|             |                |    |      |                                       |              |            |  |                                                                                       |           |                |                  |
|-------------|----------------|----|------|---------------------------------------|--------------|------------|--|---------------------------------------------------------------------------------------|-----------|----------------|------------------|
| mat'l. code |                |    |      | surface                               |              | tolerance  |  | projection                                                                            |           | product family |                  |
| SEE TABLE   |                |    |      | ASME Y14.5                            |              | ASME Y14.5 |  |  |           | FASTECH        |                  |
| ltr         | ecm no         | dr | date | tolerances unless otherwise specified |              |            |  |  |           | title          |                  |
| M           |                |    |      | angles                                |              |            |  | INCH                                                                                  |           | 1 TYPE CONTACT |                  |
|             |                |    |      | scale N.T.S.                          |              |            |  |                                                                                       |           |                |                  |
|             |                |    |      | dr                                    | T. BREWBAKER | 2003-03-11 |  |                                                                                       | dwg no    |                | sheet 2 of 7     |
|             |                |    |      | engr                                  | T. BREWBAKER | 2003-03-11 |  |                                                                                       | A93KC4040 |                | size             |
|             |                |    |      | chr                                   | T. BREWBAKER | 2003-03-11 |  |                                                                                       | A4        |                |                  |
|             |                |    |      | appd                                  | T. BREWBAKER | 2003-03-11 |  |                                                                                       | type      |                | CUSTOMER Drawing |
| sheet index | revision sheet |    |      |                                       |              |            |  |                                                                                       |           |                |                  |

PRODUCT NUMBER

SEE SHEET 7

WIRING SIDE

CIRCUIT PACK SIDE



|                          |                |      |              |                                       |                         |                                                                                       |                           |
|--------------------------|----------------|------|--------------|---------------------------------------|-------------------------|---------------------------------------------------------------------------------------|---------------------------|
| mat'l. code<br>SEE TABLE |                |      |              | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection                                                                            | product family<br>FASTECH |
| ltr                      | ecm no         | dr   | date         | tolerances unless otherwise specified |                         |  | title                     |
| M                        |                |      |              | angles                                | fin                     | INCH                                                                                  | 1 TYPE CONTACT            |
|                          |                |      |              |                                       |                         | scale N.T.S.                                                                          |                           |
|                          |                | dr   | T. BREWBAKER | 2003-03-11                            |                         |  | dwg no                    |
|                          |                | engr | T. BREWBAKER | 2003-03-11                            |                         |                                                                                       | sheet 3 of 7              |
|                          |                | chr  | T. BREWBAKER | 2003-03-11                            |                         |                                                                                       | size                      |
|                          |                | appd | T. BREWBAKER | 2003-03-11                            |                         |                                                                                       | A4                        |
| sheet index              | revision sheet |      |              |                                       |                         |                                                                                       | type                      |
|                          |                |      |              |                                       |                         |                                                                                       | CUSTOMER Drawing          |

PRODUCT NUMBER

SEE SHEET 7

1 2

3

4

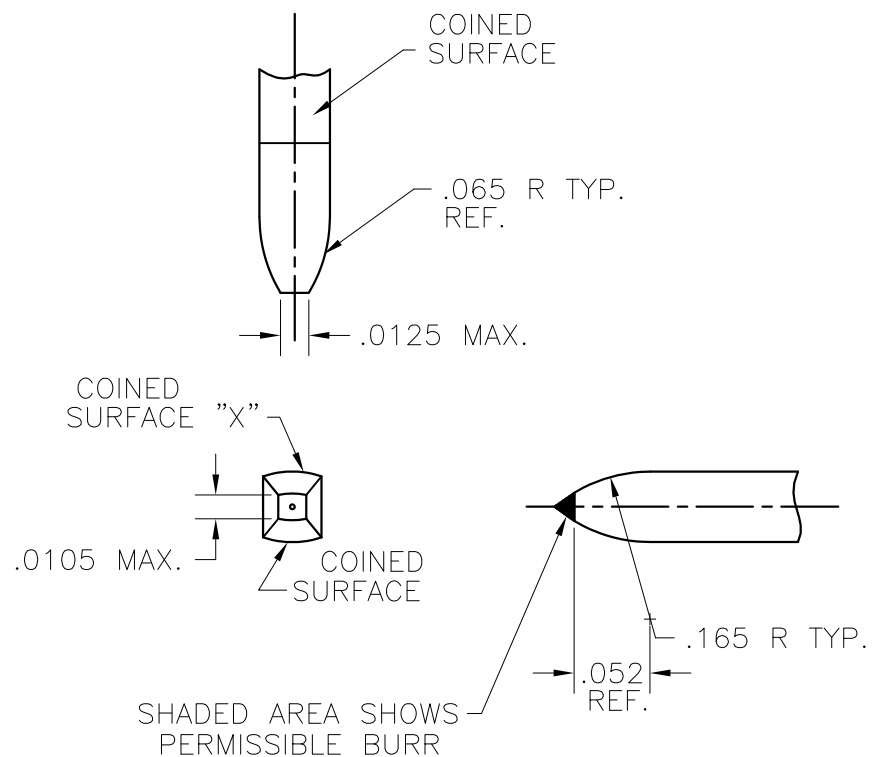


FIG. 1  
BODY CARRIED TIP  
CONFIGURATION

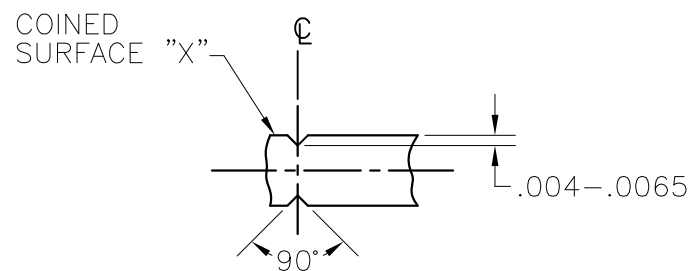
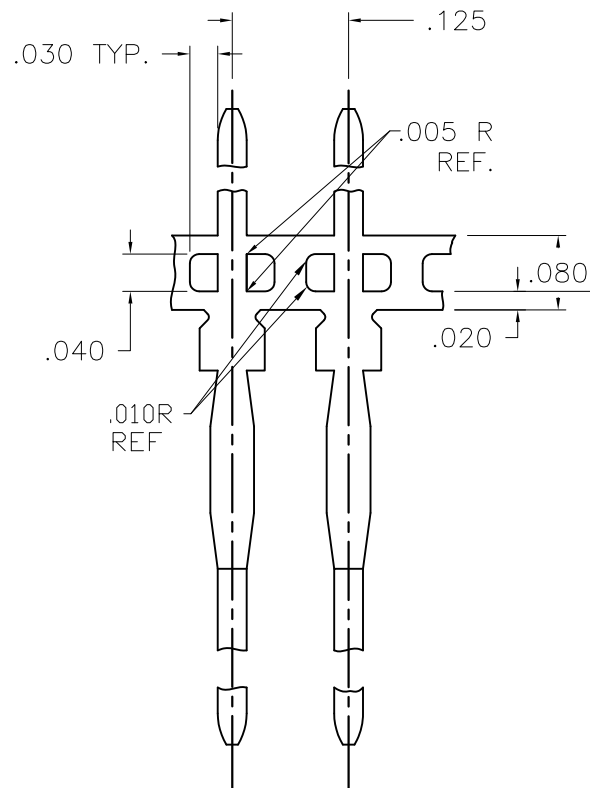


FIG. 2  
NOTCH

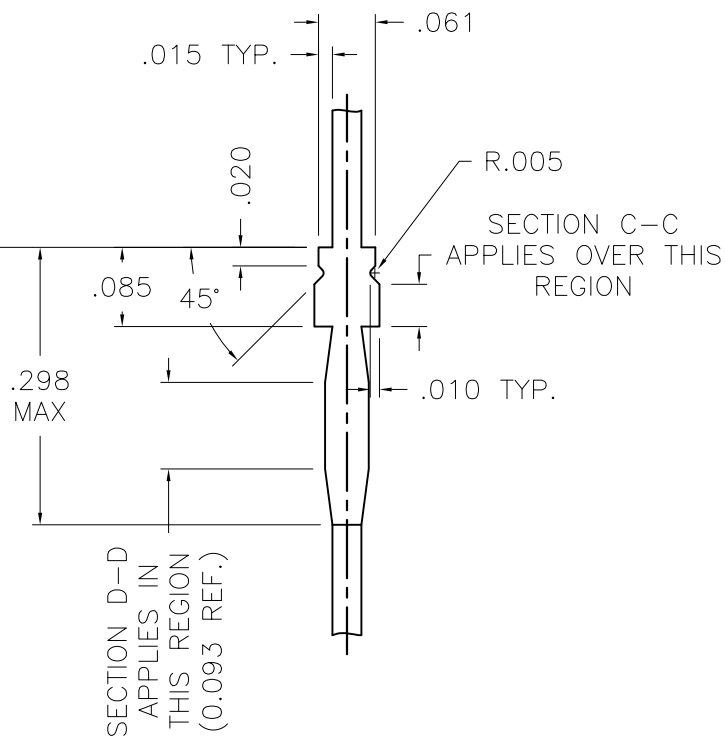
|                          |        |                |      |                                       |                                                                                       |                         |                                                                                       |                                                                                                     |           |                           |              |  |      |
|--------------------------|--------|----------------|------|---------------------------------------|---------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------|---------------------------|--------------|--|------|
| mat'l. code<br>SEE TABLE |        |                |      | surface<br>ASME Y14.5 ✓               |                                                                                       | tolerance<br>ASME Y14.5 |                                                                                       | projection<br> |           | product family<br>FASTECH |              |  |      |
| ltr                      | ecn no | dr             | date | tolerances unless otherwise specified |                                                                                       |                         |                                                                                       |                |           | title                     |              |  |      |
| M                        |        |                |      | angles                                |  |                         |                                                                                       |                                                                                                     |           | 1 TYPE CONTACT            |              |  |      |
|                          |        |                |      |                                       |                                                                                       |                         |                                                                                       | scale N.T.S.                                                                                        |           |                           |              |  |      |
|                          |        |                |      | dr                                    | T. BREWBAKER                                                                          | 2003-03-11              |  |                                                                                                     | dwg no    |                           | sheet 4 of 7 |  | size |
|                          |        |                |      | engr                                  | T. BREWBAKER                                                                          | 2003-03-11              |                                                                                       |                                                                                                     | A93KC4040 |                           | A            |  |      |
|                          |        |                |      | chr                                   | T. BREWBAKER                                                                          | 2003-03-11              |                                                                                       |                                                                                                     |           |                           |              |  |      |
|                          |        |                |      | appd                                  | T. BREWBAKER                                                                          | 2003-03-11              |                                                                                       |                                                                                                     |           |                           |              |  |      |
| sheet index              |        | revision sheet |      |                                       |                                                                                       |                         |                                                                                       |                                                                                                     |           |                           |              |  |      |

PRODUCT NUMBER

SEE SHEET 7



BODY CARRIED PIN  
WITH CARRIER  
FIG. 3



AFTER CARRIER REMOVAL  
FIG. 4

|                          |                |    |      |                                       |                         |                           |                           |
|--------------------------|----------------|----|------|---------------------------------------|-------------------------|---------------------------|---------------------------|
| mat'l. code<br>SEE TABLE |                |    |      | surface<br>ASME Y14.5                 | tolerance<br>ASME Y14.5 | projection<br>FIRST ANGLE | product family<br>FASTECH |
| ltr                      | ecm no         | dr | date | tolerances unless otherwise specified |                         | INCH                      | title<br>1 TYPE CONTACT   |
| M                        |                |    |      | angles                                | fin                     | scale N.T.S.              |                           |
|                          |                |    |      |                                       |                         |                           |                           |
|                          |                |    |      | dr                                    | T. BREWBAKER            | 2003-03-11                | dwg no                    |
|                          |                |    |      | engr                                  | T. BREWBAKER            | 2003-03-11                | sheet 5 of 7              |
|                          |                |    |      | chr                                   | T. BREWBAKER            | 2003-03-11                | size<br>A4                |
|                          |                |    |      | appd                                  | T. BREWBAKER            | 2003-03-11                | type<br>CUSTOMER Drawing  |
| sheet index              | revision sheet |    |      |                                       |                         |                           |                           |

PRODUCT NUMBER  
 SEE SHEET 7

1 | 2

3 |

4

## FCI 1-TYPE PIN PART NUMBER DESCRIPTIONS

| TYPE                                             | STYLE       | PLATING<br>(See Plating Notes- Sheet 2)                                             | Carrier                                                     |
|--------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1B<br>(Standard)                                 | - 1 thru 34 | <del>None = GXT</del> NOT AVAILABLE<br><del>G = Gold</del> NOT AVAILABLE<br>A = NXT | NONE = Body Carried Carrier<br>SG = single pin (No carrier) |
| 1C<br>(Plated Shoulder)                          | - 1 thru 6  | G = Gold                                                                            | NONE = Body Carried<br>SG = single pin (No carrier)         |
| 1D<br>(Circuit Pack Side Breakoff)               | - 1 thru 4  | <del>None = GXT</del> NOT AVAILABLE<br><del>G = Gold</del> NOT AVAILABLE<br>A = NXT | NONE = Body Carried Carrier<br>SG = single pin (No carrier) |
| 1E<br>(Torlon Bushing)                           | - 1 thru 5  | O B S O L E T E                                                                     |                                                             |
| Example: 1B-4GSG = 1B-4, Gold plated, Single Pin |             |                                                                                     |                                                             |

|             |                |            |      |                                                                                       |              |                                                                                       |                                                                                       |                |                  |
|-------------|----------------|------------|------|---------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|------------------|
| mat'l. code |                | surface    |      | tolerance                                                                             |              | projection                                                                            |                                                                                       | product family |                  |
| SEE TABLE   |                | ASME Y14.5 |      | ASME Y14.5                                                                            |              |  |                                                                                       | FASTECH        |                  |
| ltr         | ec'n no        | dr         | date | tolerances unless otherwise specified                                                 |              |  |                                                                                       | title          |                  |
| M           |                |            |      | angles                                                                                |              | INCH                                                                                  |                                                                                       | 1 TYPE CONTACT |                  |
|             |                |            |      |  |              | scale N.T.S.                                                                          |                                                                                       | dwg no         |                  |
|             |                |            |      | dr                                                                                    | T. BREWBAKER | 2003-03-11                                                                            |  |                | sheet 6 of 7     |
|             |                |            |      | engr                                                                                  | T. BREWBAKER | 2003-03-11                                                                            | A93KC4040                                                                             |                | size A4          |
|             |                |            |      | chr                                                                                   | T. BREWBAKER | 2003-03-11                                                                            | type                                                                                  |                | CUSTOMER Drawing |
|             |                |            |      | appd                                                                                  | T. BREWBAKER | 2003-03-11                                                                            |                                                                                       |                |                  |
| sheet index | revision sheet |            |      |                                                                                       |              |                                                                                       |                                                                                       |                |                  |



## SINGLE PINS

## FCI PART NUMBERS BY PLATING TYPE

|                                                                        | GXT<br>NOT AVAILABLE | NXT      | GOLD<br>NOT AVAILABLE | NICKEL OR<br>NICKEL ALLOY |
|------------------------------------------------------------------------|----------------------|----------|-----------------------|---------------------------|
| STANDARD PINS                                                          | --                   | 1B-1ASG  | 1B-1GSG               |                           |
|                                                                        | --                   | 1B-2ASG  | 1B-2GSG               |                           |
|                                                                        | --                   | 1B-3ASG  | 1B-3GSG               | NOT AVAILABLE             |
|                                                                        | --                   | 1B-4ASG  | 1B-4GSG               |                           |
|                                                                        | --                   | 1B-5ASG  | 1B-5GSG               | NOT AVAILABLE             |
|                                                                        | --                   | 1B-6ASG  | 1B-6GSG               | NOT AVAILABLE             |
|                                                                        | --                   | 1B-7ASG  | 1B-7GSG               | NOT AVAILABLE             |
|                                                                        | --                   | 1B-8ASG  | 1B-8GSG               | NOT AVAILABLE             |
|                                                                        | --                   | 1B-9ASG  | 1B-9GSG               | NOT AVAILABLE             |
|                                                                        | --                   | 1B-10ASG | 1B-10GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-13ASG | 1B-13GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-14ASG | 1B-14GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-15ASG | 1B-15GSG              |                           |
|                                                                        | --                   | 1B-16ASG | 1B-16GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-17ASG | 1B-17GSG              | NOT TOOLED                |
|                                                                        | --                   | 1B-18ASG | 1B-18GSG              | NOT TOOLED                |
|                                                                        | --                   | 1B-19ASG | 1B-19GSG              | NOT TOOLED                |
|                                                                        | --                   | 1B-20ASG | 1B-20GSG              |                           |
|                                                                        | --                   | 1B-21ASG | 1B-21GSG              |                           |
|                                                                        | --                   | 1B-22ASG | 1B-22GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-23ASG | 1B-23GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-24ASG | 1B-24GSG              |                           |
|                                                                        | --                   | 1B-25ASG | 1B-25GSG              |                           |
|                                                                        | --                   | 1B-26ASG | 1B-26GSG              |                           |
|                                                                        | --                   | 1B-27ASG | 1B-27GSG              |                           |
|                                                                        | --                   | 1B-28ASG | 1B-28GSG              |                           |
|                                                                        | --                   | 1B-29ASG | 1B-29GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-30ASG | 1B-30GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-31ASG | 1B-31GSG              |                           |
|                                                                        | --                   | 1B-32ASG | 1B-32GSG              |                           |
|                                                                        | --                   | 1B-33ASG | 1B-33GSG              | NOT AVAILABLE             |
|                                                                        | --                   | 1B-34ASG | 1B-34GSG              |                           |
| PLATED<br>SHOULDER<br>FOR USE WITH<br>5G SHORTING<br>CONTACTS          |                      |          | 1C-1GSG               | NOT AVAILABLE             |
|                                                                        |                      |          | 1C-2GSG               | NOT AVAILABLE             |
|                                                                        |                      |          | 1C-3GSG               | NOT AVAILABLE             |
|                                                                        |                      |          | 1C-4GSG               | NOT AVAILABLE             |
|                                                                        |                      |          | 1C-5GSG               | NOT AVAILABLE             |
| CIRCUIT PACK<br>SIDE BREAKOFF                                          | --                   | 1D-1ASG  | 1D-1GSG               |                           |
|                                                                        | --                   | 1D-2ASG  | 1D-2GSG               | NOT AVAILABLE             |
|                                                                        |                      |          |                       | 1D-3SG                    |
|                                                                        | --                   | 1D-4ASG  | 1D-4GSG               | NOT AVAILABLE             |
| TORLON PIN<br>REFERENCE<br>SEE DRAWING<br>A88KC4093<br>FOR PIN DETAILS |                      |          | 1E-1                  | NOT TOOLED                |
|                                                                        |                      |          | 1E-2                  | NOT TOOLED                |
|                                                                        |                      |          | 1E-3                  | NOT TOOLED                |
|                                                                        |                      |          | 1E-4                  | NOT AVAILABLE             |
|                                                                        |                      |          | 1E-5                  | NOT AVAILABLE             |

## BODY CARRIED, .125 IN. CENTERS, 50,000 PINS/REEL

## FCI PART NUMBERS BY PLATING TYPE

|                                                               | GXT<br>NOT AVAILABLE | NXT    | GOLD<br>NOT AVAILABLE | NICKEL OR<br>NICKEL ALLOY |
|---------------------------------------------------------------|----------------------|--------|-----------------------|---------------------------|
| STANDARD PINS                                                 | --                   | 1B-1A  | 1B-1G                 |                           |
|                                                               | --                   | 1B-2A  | 1B-2G                 | NOT AVAILABLE             |
|                                                               | --                   | 1B-3A  | 1B-3G                 |                           |
|                                                               | --                   | 1B-4A  | 1B-4G                 |                           |
|                                                               | --                   | 1B-5A  | 1B-5G                 | NOT AVAILABLE             |
|                                                               | --                   | 1B-6A  | 1B-6G                 | NOT AVAILABLE             |
|                                                               | --                   | 1B-7A  | 1B-7G                 | NOT AVAILABLE             |
|                                                               | --                   | 1B-8A  | 1B-8G                 | NOT AVAILABLE             |
|                                                               | --                   | 1B-9A  | 1B-9G                 | NOT AVAILABLE             |
|                                                               | --                   | 1B-10A | 1B-10G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-13A | 1B-13G                |                           |
|                                                               | --                   | 1B-14A | 1B-14G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-15A | 1B-15G                |                           |
|                                                               | --                   | 1B-16A | 1B-16G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-17A | 1B-17G                | NOT TOOLED                |
|                                                               | --                   | 1B-18A | 1B-18G                | NOT TOOLED                |
|                                                               | --                   | 1B-19A | 1B-19G                | NOT TOOLED                |
|                                                               | --                   | 1B-20A | 1B-20G                |                           |
|                                                               | --                   | 1B-21A | 1B-21G                |                           |
|                                                               | --                   | 1B-22A | 1B-22G                |                           |
|                                                               | --                   | 1B-23A | 1B-23G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-24A | 1B-24G                |                           |
|                                                               | --                   | 1B-25A | 1B-25G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-26A | 1B-26G                |                           |
|                                                               | --                   | 1B-27A | 1B-27G                |                           |
|                                                               | --                   | 1B-28A | 1B-28G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-29A | 1B-29G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-30A | 1B-30G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-31A | 1B-31G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-32A | 1B-32G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-33A | 1B-33G                | NOT AVAILABLE             |
|                                                               | --                   | 1B-34A | 1B-34G                | NOT AVAILABLE             |
| PLATED<br>SHOULDER<br>FOR USE WITH<br>5G SHORTING<br>CONTACTS |                      |        | 1C-1G                 | NOT AVAILABLE             |
|                                                               |                      |        | 1C-2G                 | NOT AVAILABLE             |
|                                                               |                      |        | 1C-3G                 | NOT AVAILABLE             |
|                                                               |                      |        | 1C-4G                 | NOT AVAILABLE             |
|                                                               |                      |        | 1C-5G                 | NOT AVAILABLE             |
| CIRCUIT PACK<br>SIDE BREAKOFF                                 | --                   | 1D-1A  | 1D-1G                 |                           |
|                                                               | --                   | 1D-2A  | 1D-2G                 | NOT AVAILABLE             |
|                                                               |                      |        |                       | 1D-3                      |
|                                                               | --                   | 1D-4A  | 1D-4G                 | NOT AVAILABLE             |

|             |          |            |      |                                       |              |            |  |                  |           |
|-------------|----------|------------|------|---------------------------------------|--------------|------------|--|------------------|-----------|
| mat'l. code |          | surface    |      | tolerance                             |              | projection |  | product family   |           |
| SEE TABLE   |          | ASME Y14.5 |      | ASME Y14.5                            |              |            |  | FASTECH          |           |
| ltr         | ecr no   | dr         | date | tolerances unless otherwise specified |              |            |  | title            |           |
| M           |          |            |      | angles                                |              |            |  | 1 TYPE CONTACT   |           |
|             |          |            |      |                                       |              |            |  | dwg no           |           |
|             |          |            |      | scale N.T.S.                          |              |            |  | sheet 7 of 7     |           |
|             |          |            |      | dr                                    | T. BREWBAKER | 2003-03-11 |  |                  | A93KC4040 |
|             |          |            |      | enr                                   | T. BREWBAKER | 2003-03-11 |  |                  |           |
|             |          |            |      | chr                                   | T. BREWBAKER | 2003-03-11 |  |                  |           |
|             |          |            |      | appd                                  | T. BREWBAKER | 2003-03-11 |  |                  |           |
| sheet       | revision |            |      |                                       |              |            |  | type             |           |
| index       | sheet    |            |      |                                       |              |            |  | CUSTOMER Drawing |           |