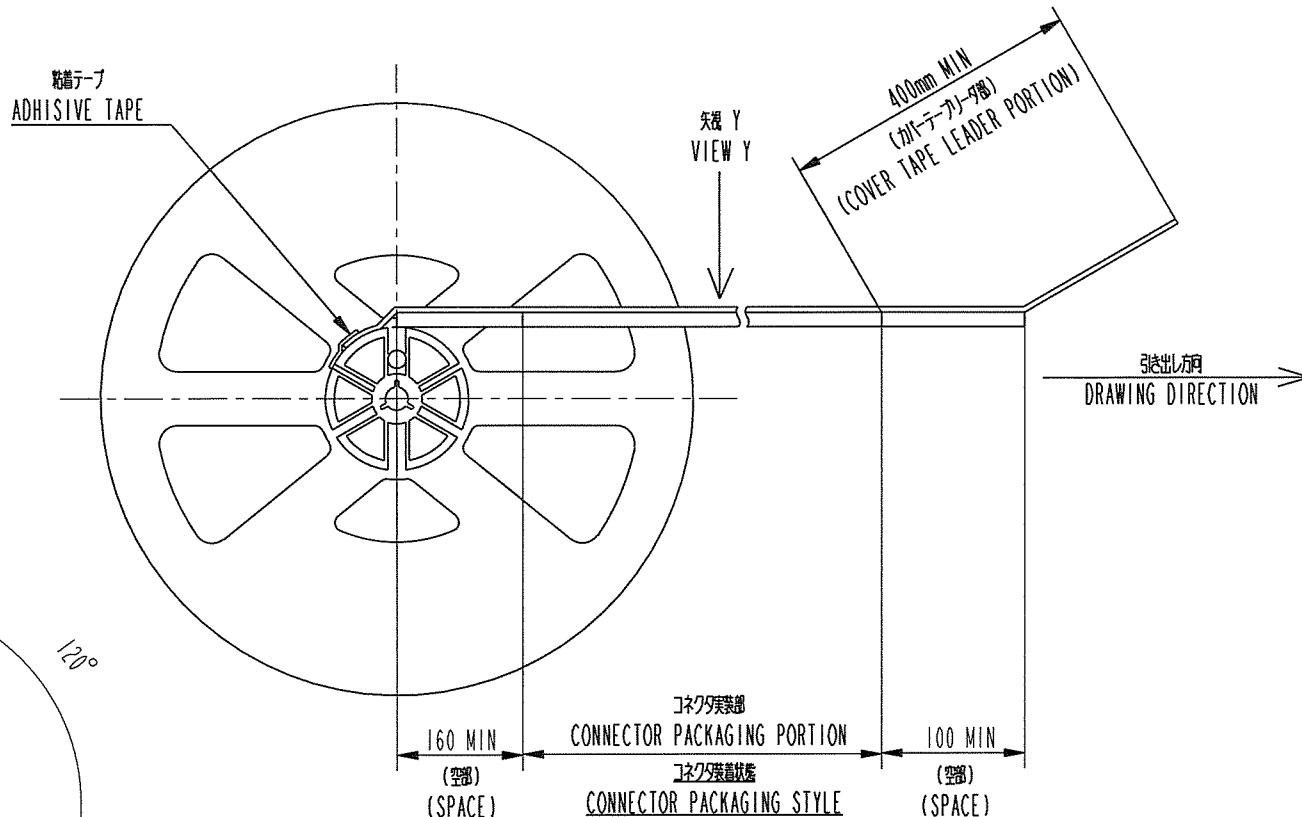
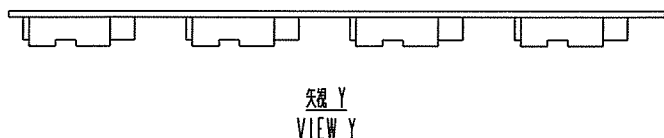
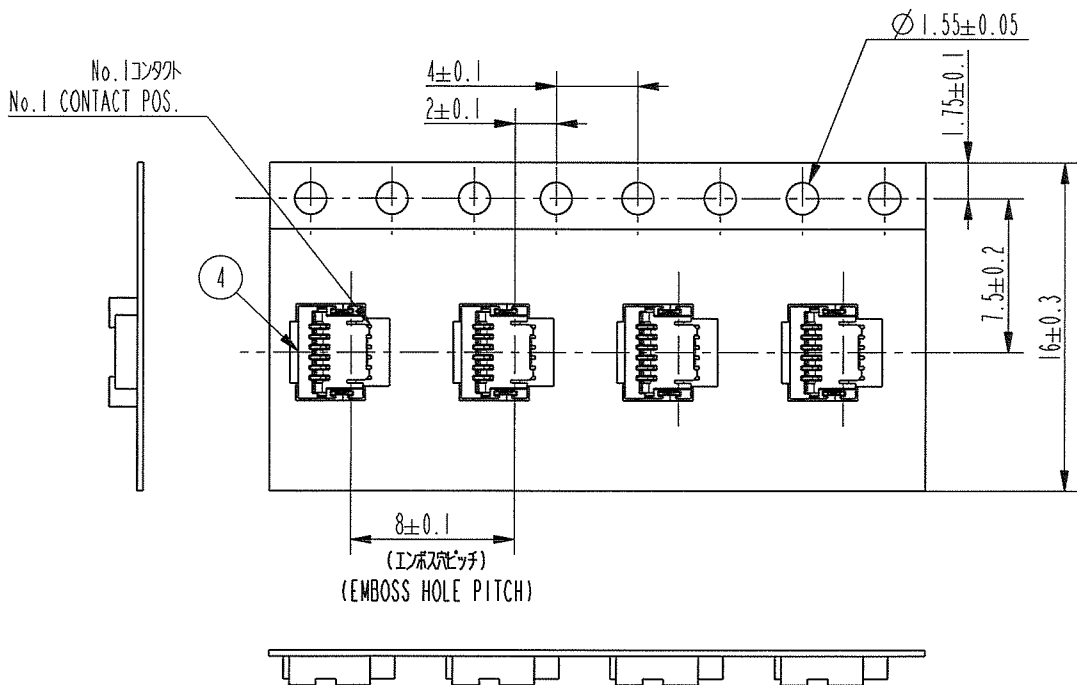
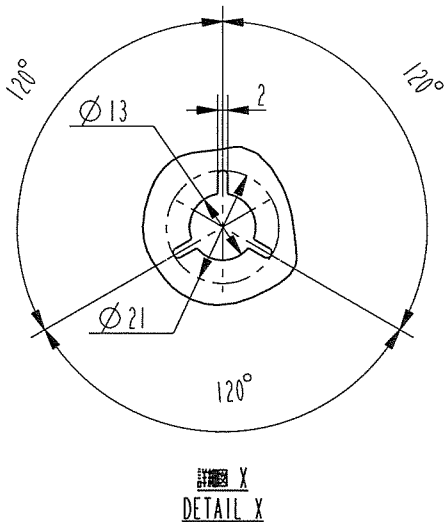
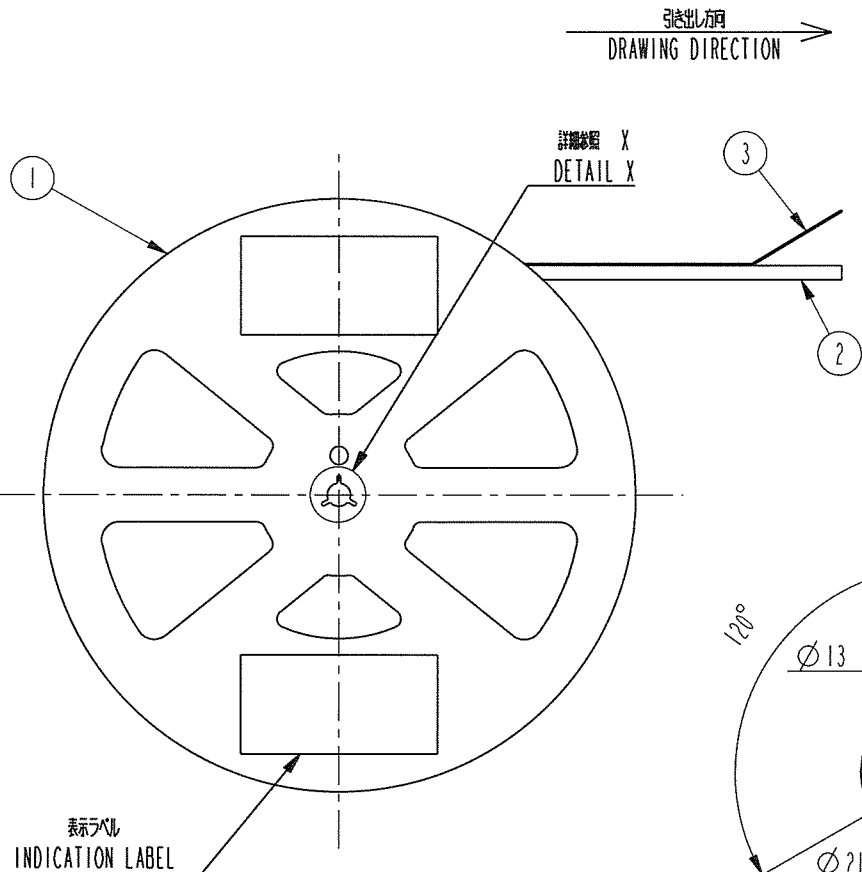
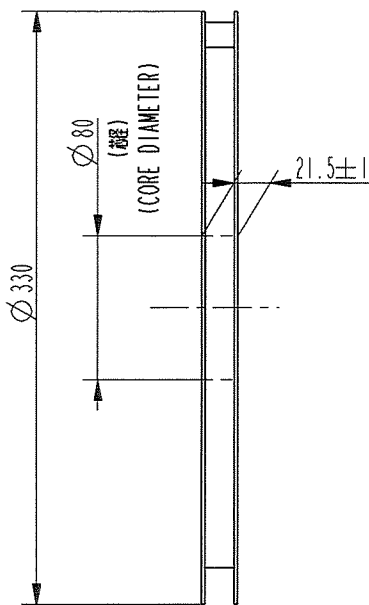


| PRODUCT No.       | NO. OF CONTACTS |
|-------------------|-----------------|
| 59453-042110ECHLF | 4 CONTACTS      |
| 59453-052110ECHLF | 5 CONTACTS      |
| 59453-062110ECHLF | 6 CONTACTS      |
| 59453-082110ECHLF | 8 CONTACTS      |



| 部番<br>No. | 品名<br>PART NAME                        | 型番<br>PRODUCT No. | 材質<br>MATERIAL                 | 数量<br>Q'TY | 記事<br>NOTE                                                                         |
|-----------|----------------------------------------|-------------------|--------------------------------|------------|------------------------------------------------------------------------------------|
| 1         | リール<br>REEL                            | -----             | ポリスチレン<br>POLYSTYRENE          | 1          | 色:白, 帯電防止<br>COLER:WHITE, ANTI STATIC                                              |
| 2         | プラスチック(エンボス)テープ<br>PLASTIC(EMBOSS)TAPE | -----             | PP又は, PET<br>PP or PET         | 1          | 帯電防止<br>ANTI STATIC                                                                |
| 3         | カバーテープ<br>COVER TAPE                   | -----             | ポリエステル<br>POLYESTER            | 1          |                                                                                    |
| 4         | コネクタ(単体)<br>CONNECTOR                  | 59453-0.211CHLF   | 添付図面参照<br>SEE ATTACHED DRAWING | 5,000      | 接点部:金めっき<br>CONTACT AREA PLATING:GOLD<br>ターミナル部:金めっき<br>TERMINAL AREA PLATING:GOLD |

1. 本製品は、自動実装(SMT)対応、FPC用コネクタのプラスチックテープ巻品である。  
 2. プラスチック(エンボス)テープ及びリールの形状寸法は、JIS C 0806(電子部品のテーピング)(表面実装部品)に準ずる。  
 NOTE  
 1.THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FPR FPC AND COPES WITH AUTOMATIC MOUNTING(SMT)  
 2.SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES))

|                                                                                       |             |            |                                                                                      |                                                                                               |        |               |                                                                                                  |          |                                                                                          |              |  |
|---------------------------------------------------------------------------------------|-------------|------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------|---------------|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------|--------------|--|
| www.fciconnect.com                                                                    |             |            |                                                                                      | surface  |        | tolerance std | projection  |          | MM  |              |  |
|                                                                                       |             |            |                                                                                      | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                         |        |               |                                                                                                  |          |                                                                                          |              |  |
| Dr                                                                                    | M. Higa     | 2008.08.10 | ANGULAR                                                                              |                                                                                               | LINEAR |               |                                                                                                  |          | size                                                                                     | Scale        |  |
| Eng                                                                                   | T. Fukumura | 2008.08.10 |                                                                                      |                                                                                               |        |               | ±5                                                                                               |          | A2                                                                                       | N/A          |  |
| Chr                                                                                   | M. Higa     | 2008.08.10 | ±5'                                                                                  |                                                                                               |        |               |                                                                                                  |          | ECN                                                                                      |              |  |
| Appr                                                                                  | M. Higa     | 2008.08.10 | Product family                                                                       |                                                                                               |        |               |                                                                                                  | 59DF     | Spec ref                                                                                 |              |  |
|  |             |            | PLASTIC TAPE PACKAGED 0.5mm PITCH FPC CONNECTOR<br>(上接点タイプ)(UPPER SIDE CONTACT TYPE) |                                                                                               |        |               |                                                                                                  | 59453    |                                                                                          | Rev.<br>A    |  |
| catalog no                                                                            |             |            |                                                                                      |                                                                                               |        |               |                                                                                                  | CUSTOMER |                                                                                          | sheet 1 of 2 |  |

A

B

C

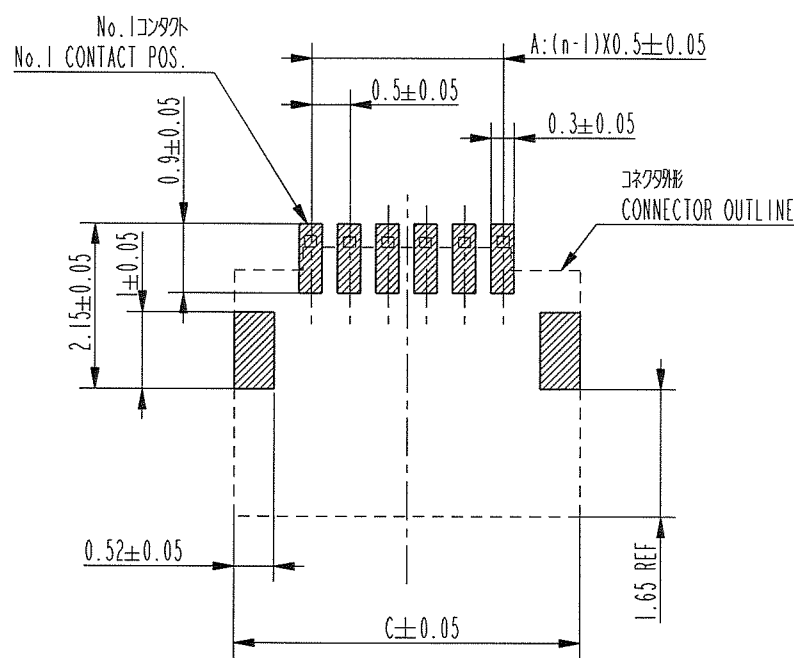
D

E

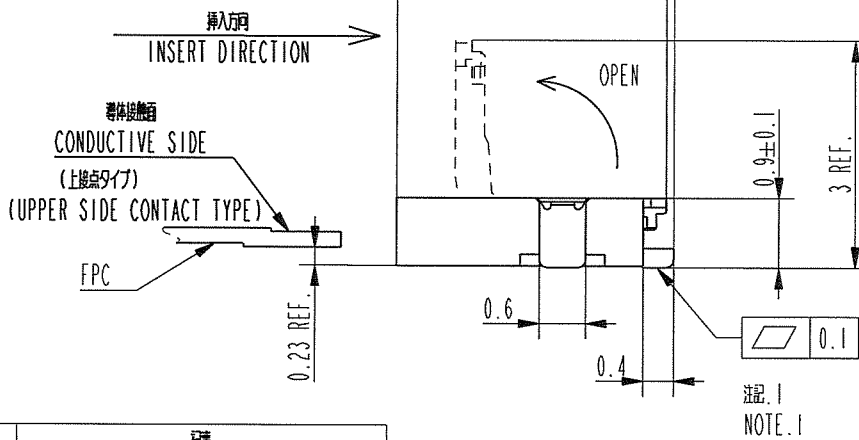
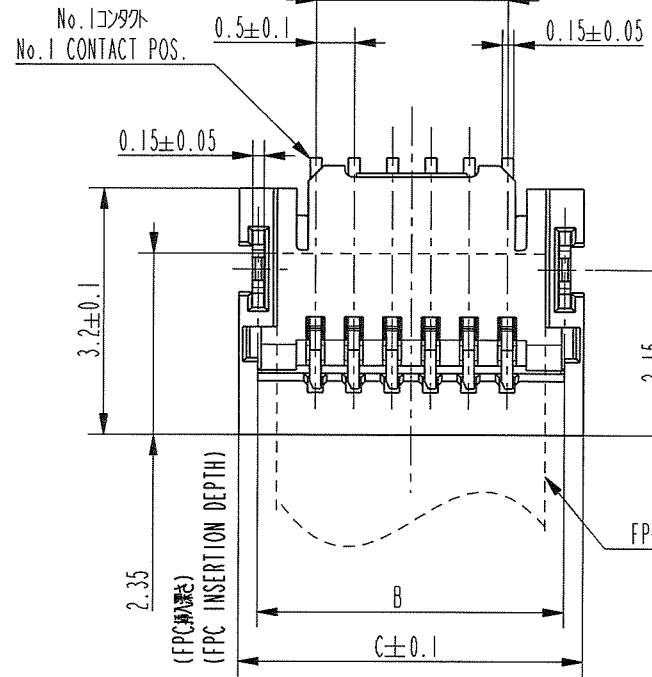
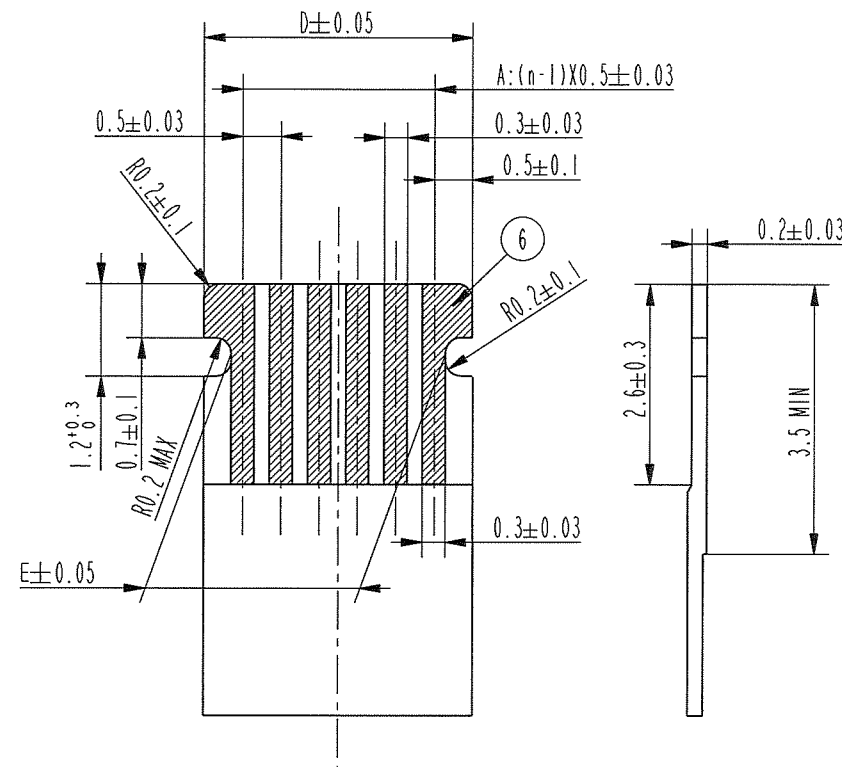
F

| PRODUCT No.     | NO. OF CONTACTS |
|-----------------|-----------------|
| 59453-04211CHLF | 4 CONTACTS      |
| 59453-05211CHLF | 5 CONTACTS      |
| 59453-06211CHLF | 6 CONTACTS      |
| 59453-08211CHLF | 8 CONTACTS      |

推奨基板パターン図  
RECOMMENDED PCB LAYOUT



推奨FPC寸法  
RECOMMENDED FPC



CONNECTOR PARTS LIST

| 部品番号<br>No. | 部品名<br>PART NAME    | 材料<br>MATERIAL                                             | 数量<br>Q'TY | 記号<br>NOTE                                                                                                          |
|-------------|---------------------|------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------|
| 1           | ハウジング<br>HOUSING    | ガラス繊維入り熱可塑性樹脂 UL 94V-0<br>GLASS FILLED THERMOPLASTIC RESIN | 1          | 色:黒 ハロゲンフリー<br>COLOR:BLACK HALOGEN FREE                                                                             |
| 2           | アクチュエータ<br>ACTUATOR | ガラス繊維入り熱可塑性樹脂 UL 94V-0<br>GLASS FILLED THERMOPLASTIC RESIN | 1          | 色:白 ハロゲンフリー<br>COLOR:WHITE HALOGEN FREE                                                                             |
| 3           | コンタクト<br>CONTACT    | 銅合金<br>COPPER ALLOY                                        | n          | 接点部:金めっき<br>CONTACT AREA PLATING:GOLD<br>端子部:金めっき<br>TERMINAL AREA PLATING:GOLD<br>ニッケル下めっき<br>UNDER NICKEL PLATING |
| 4           | 固定金具<br>FIXING TAB  | 黄銅<br>BRASS                                                | 2          | めっき:銀めっき(鉛フリー)<br>PLATING:TIN (LEAD FREE)                                                                           |

n=極数  
n=NO. OF CONTACTS

注記  
1.コンタクト、固定金具の平坦度は0.1以内  
NOTE  
1.COPLANARITY FOR CONTACT TERMINAL AND FIXING TAB MUST BE WITHIN 0.1mm.

寸法表 TABLE FOR DIMENSIONS

| PRODUCT No.                  | A寸法 | B寸法 | C寸法 | D寸法 | E寸法 |
|------------------------------|-----|-----|-----|-----|-----|
| 59453-04211CHLF (4 CONTACTS) | 1.5 | 3.0 | 3.5 | 2.5 | 1.8 |
| 59453-05211CHLF (5 CONTACTS) | 2.0 | 3.5 | 4.0 | 3.0 | 2.3 |
| 59453-06211CHLF (6 CONTACTS) | 2.5 | 4.0 | 4.5 | 3.5 | 2.8 |
| 59453-08211CHLF (8 CONTACTS) | 3.5 | 5.0 | 5.5 | 4.5 | 3.8 |

FPC PARTS LIST

| 部品番号<br>No. | 品名<br>PART NAME          | 材質<br>MATERIAL                                      | 記号<br>NOTE |
|-------------|--------------------------|-----------------------------------------------------|------------|
| 5           | ベースフィルム<br>BASE FILM     | ポリイミド<br>POLYIMIDE                                  |            |
| 6           | 導体<br>CONDUCTOR          | 銅箔、金めっき 0.1μm以上<br>COPPER FOIL (PLATING:GOLD 0.1μm) |            |
| 7           | オーバーレイ<br>OVER LAY       | ポリイミド<br>POLYIMIDE                                  |            |
| 8           | 支持テープ<br>SUPPORTING TAPE | ポリイミド<br>POLYIMIDE                                  |            |

注記  
熱硬化接着剤を使用し、接合方法は熱圧着とする。  
NOTE  
ADHISIVE METHOD OF SUPPORTING TAPE SHALL BE HEAT CRIMPING METHOD AND THERMOSETTING ADHISIVE SHALL BE USED

| rev | ecn no   | dr  | date         |
|-----|----------|-----|--------------|
| A   | J09-0301 | M.K | Aug. 10, '09 |

|                    |             |            |                                                                                      |               |              |       |
|--------------------|-------------|------------|--------------------------------------------------------------------------------------|---------------|--------------|-------|
| www.fciconnect.com |             |            | surface                                                                              | tolerance std | projection   | MM    |
|                    |             |            | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                |               |              |       |
| Dr                 | M. Higo     | 2009.08.10 | ANGULAR                                                                              | LINEAR        | size         | Scale |
| Eng                | T. Subagawa | 2009.08.10 |                                                                                      |               | A2           | N/A   |
| Chr                | M. Higo     | 2009.08.10 | ±1°                                                                                  |               | ECN          |       |
| Appr               | M. Higo     | 2009.08.10 |                                                                                      |               | Spec ref     |       |
| Product family     |             |            | 590F                                                                                 |               |              |       |
| FCI                |             |            | 0.5mm ピッチ FPCコネクタ<br>0.5mm PITCH FPC CONNECTOR<br>(上接点タイプ) (UPPER SIDE CONTACT TYPE) | dwg no        | 59453        | Rev.  |
| catalog no         |             |            |                                                                                      | CUSTOMER      | sheet 2 of 2 | A     |