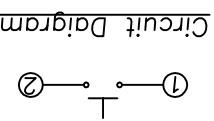
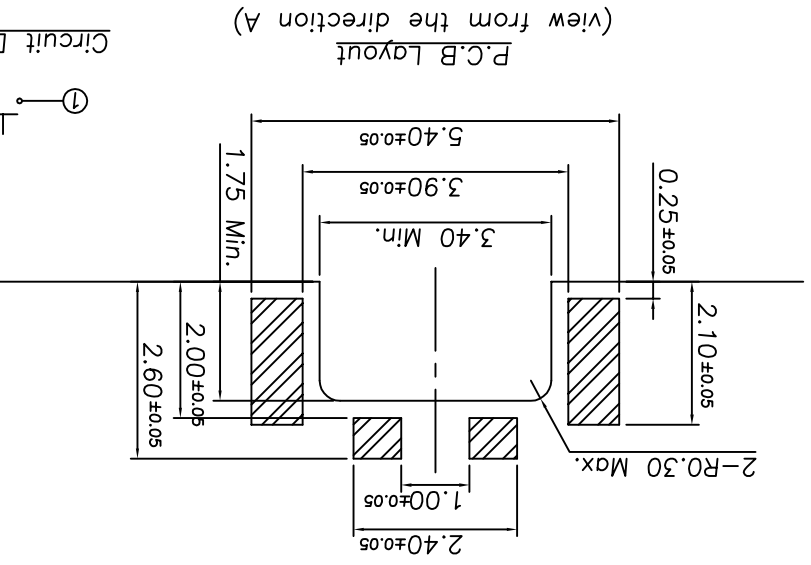
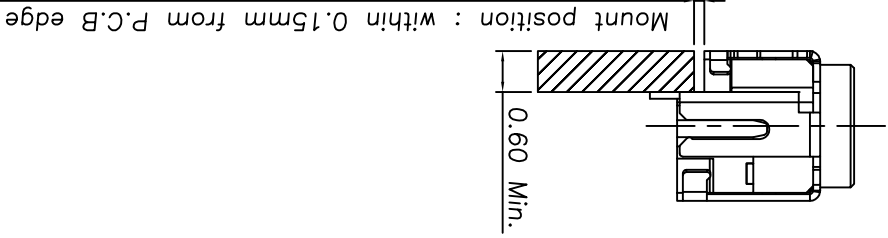
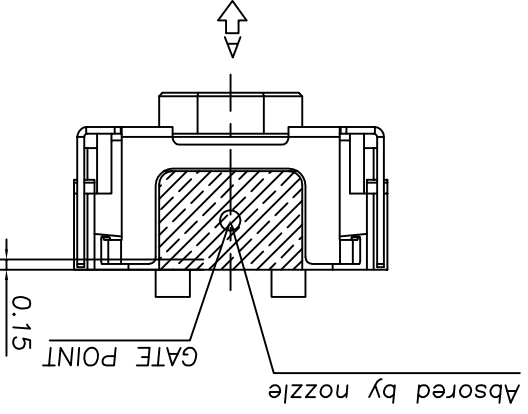
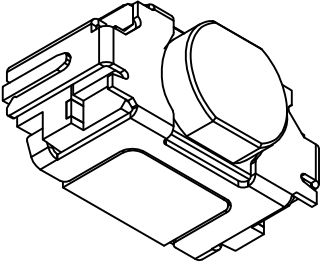
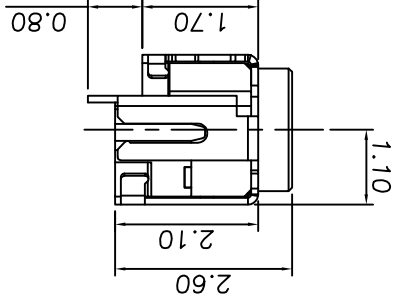
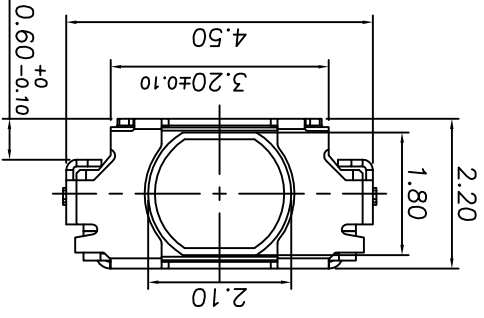
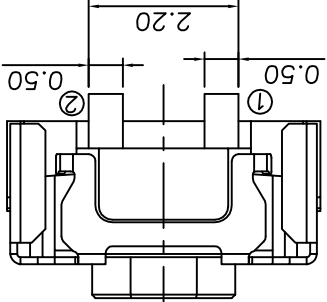


| ZONE | REV. | DESCRIPTION | DATE     | APPD. |
|------|------|-------------|----------|-------|
| △    | A1   | REL.DWG     | 14'10.08 |       |
| △    |      |             |          |       |
| △    |      |             |          |       |
| △    |      |             |          |       |
| △    |      |             |          |       |

|        |      |         |      |
|--------|------|---------|------|
| DR:    | Will | DESIGN: | Will |
| REV:   | A1   | UNITS:  | mm   |
| SCALE: | 1:1  |         |      |
| QTY:   |      |         |      |

|           |     |
|-----------|-----|
| APPD:     |     |
| CHKD:     |     |
| PART NO.: | TCH |
| MATL.:    |     |
| FINISH:   |     |

|            |             |
|------------|-------------|
| APPD:      |             |
| CHKD:      |             |
| PART NAME: | TACT SWITCH |
| DWG NO.:   |             |



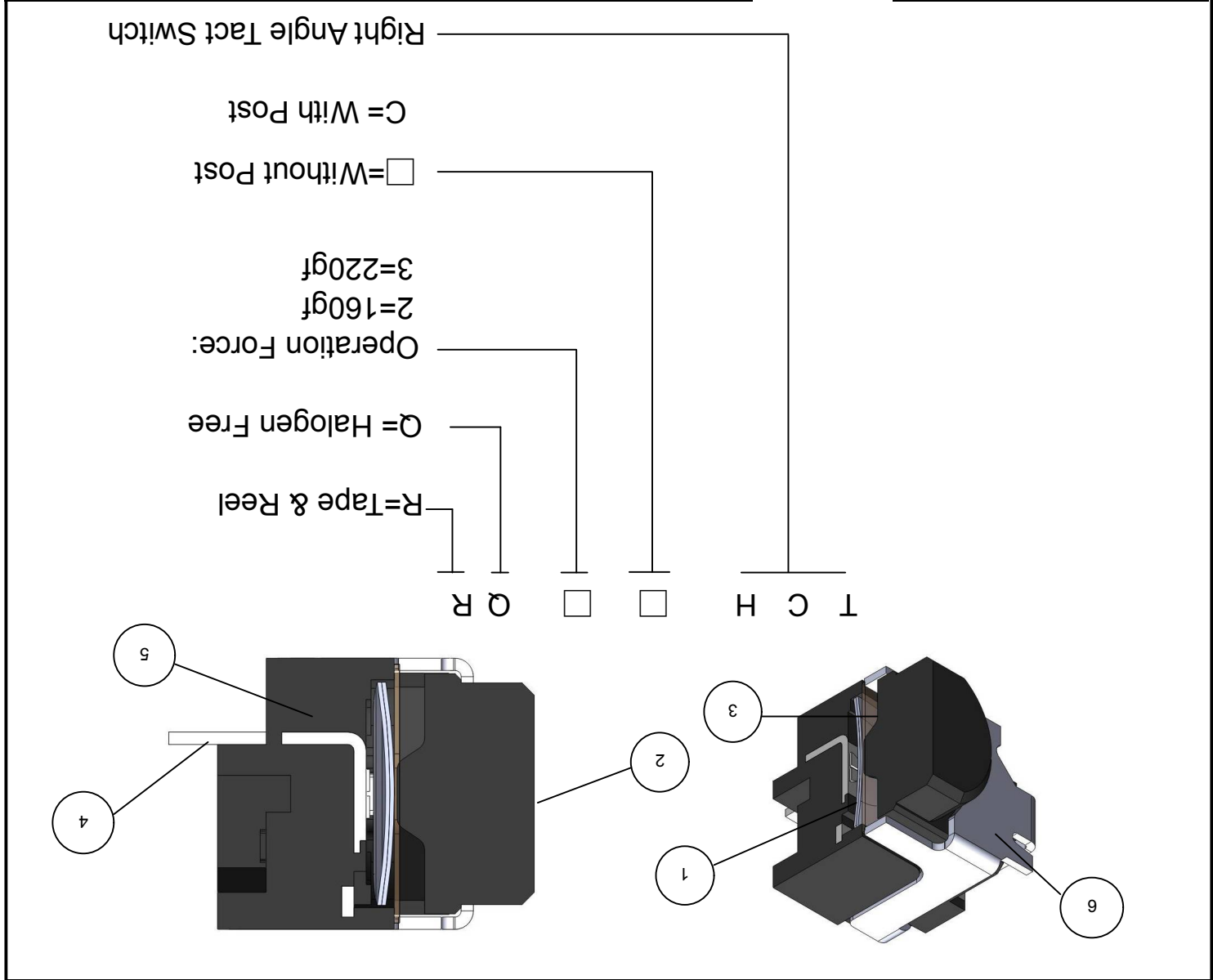
- Specifications:
1. Rating : 50mA,DC 12V
  2. Contact resistance : 500mΩ Max.
  3. Insulation resistance : DC 100V-100MΩ Min.
  4. Operating force : 160±50gf
  5. Operating life : 600,000 cycles Min
  6. Operating temperature : -30~85°C
  7. Storage temperature : -40~90°C

參考圖面

NOTE:  
1. ALL DIMENSIONS ARE IN MILLIMETERS  
2. GENERAL TOLERANCES : ±0.2mm.

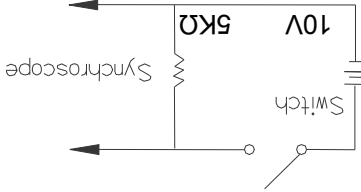
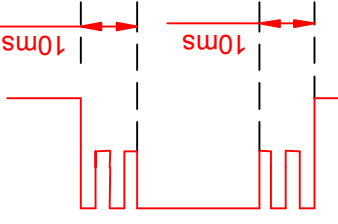
|         |   |          |       |
|---------|---|----------|-------|
| REV.    | A | ECO. NO. | APPD. |
| DWG.REL |   |          |       |
|         |   |          |       |
|         |   |          |       |

|                        |             |             |
|------------------------|-------------|-------------|
| FILE NO. : E-Q-CT91    | REV. : A    | SHEET : 1/1 |
| PRD. NO. T C H □ □ Q R | PR. : PATTY | 11.26'14    |
| TACTILE SWITCH TYPE    | CHKD. :     |             |
| TITLE :                | APPD. :     |             |

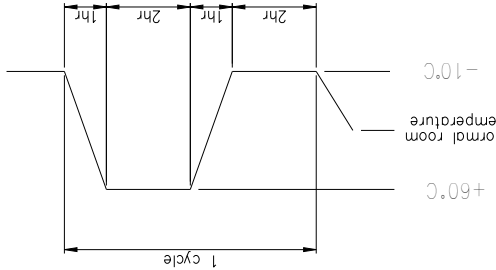


|   |       |   |                 |                 |   |
|---|-------|---|-----------------|-----------------|---|
| 6 | COVER | 1 | STAINLESS STEEL | WITH GOLD FLASH | - |
|---|-------|---|-----------------|-----------------|---|

2. Current Range: 50mA, 12V DC
3. Type of Actuation: Tactile Feedback
4. Test Sequence:

| ITEM | DESCRIPTION                     | TEST CONDITIONS  | REQUIREMENTS   |
|------|---------------------------------|--|--|
| 1    | Visual Examination              | By visual examination check without any  | There shall be no defects that affect the serviceability of the product.                                   |
| 2    | Contact Resistance              | Applying a static load twice the actuating force to actuator. Measurements shall be made with a 1 kHz small current contact resistance meter.(20mV 50mA max)   | 500 mΩ Max.  |
| 3    | Insulation Resistance           | Measurements shall be made following application of 100 V DC potential across terminals and across terminals and frame.  | 100MΩ Min.   |
| 4    | Dielectric Withstanding Voltage | 100 V AC(50Hz or 60Hz) shall be applied across terminals and across terminals and frame for 1 minute.  | There shall be no breakdown or flashover   |
| 5    | Bounce                          |  <p>Lightly striking the actuator at a rate encountered 3 to 4 operations per sec, bounce shall be tested at “ON” and “OFF”</p> |  <p>10m Seconds Max.</p> |

| MECHANICAL PERFORMANCE |                      |   |   |
|------------------------|----------------------|---|---|
| 7                      | Stroke               | Measure the actuator opening distance from open to contact position by on straight force 0.15±0.1mm in the middle of actuator.  | ①As shown in item 3~7   |
| 8                      | Max. actuation force | Placing the switch such that the direction of switch operation is vertical, a static load of (3kgf) for 15 seconds.   | ①As shown in item 3~7   |
| 9                      | Vibration            | Shall be vibrated in accordance with Method MIL-STD-202F,201A<br>①Frequency: 10-55-10Hz in 1-min/cycle.<br>②Direction of oscillation: Three mutually perpendicular directions, including the directions of stem travel.<br>③Test time: 2 hours each direction<br>④Swing distance : 1.5mm                  | ①As shown in item 6、7<br>②Contact Resistance: 500mΩ Max.  |
| 10                     | Shock                | ① Acceleration:80G<br>② Testing Direction: 6 sides<br>③ Test Cycle: 3 times in each direction   | ①As shown in item 6~7<br>② Contact Resistance: 500mΩ Max.                                       |
| 11                     | Operating Life       | Measurements shall be made following the test forth below :<br>①5mA,5V DC resistive load<br>② Operating frequency: 2~3times/s<br>③Applying a static load the operating force to the center of the stem in the direction of operation<br>Static Load = OF Max.<br>④Cycle of Operation : 600,000 cycles Min | ①As shown in item 3~7<br>②Operating force:±30% of initial force<br>③ Contact Resistance: 1Ω Max |

|   |   |                       |    |  |
|---|---|-----------------------|----|--|
| <p>② Contact Resistance: 500Ω Max</p>   | <p>sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made:</p> <p>① Temperature: 90±2°C</p> <p>② Time: 96 hours</p>   | Heat Resistance       | 13 |  |
| <p>① As shown in item 2~7</p> <p>② Contact Resistance: 500Ω Max</p>               | <p>Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made:</p> <p>① Temperature: 60±2°C</p> <p>② Relative Humidity: 90~95%</p> <p>③ Time: 96 hours</p> | Humidity Resistance   | 14 |  |
| <p>① As shown in item 2~7</p> <p>② Mechanical properties should remain normal</p> | <p>1) Test cycles: 5 cycles</p> <p>2) Standard conditions after test: 1 hour</p>   | Change of Temperature | 15 |  |

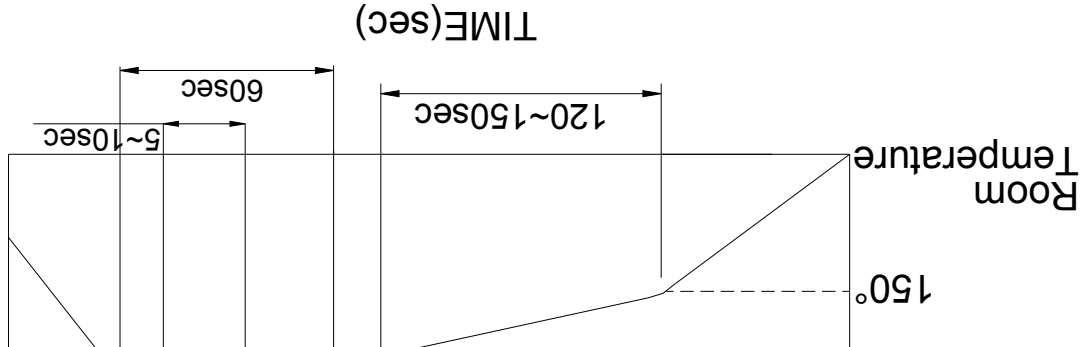
- The condition mentioned above is the temperature on the Cu foil of the PCB surface. There are cases where board's temperature greatly differs from switch's surface be used not to allow switch's surface temperature to exceed 260°C.
- Manual Soldering

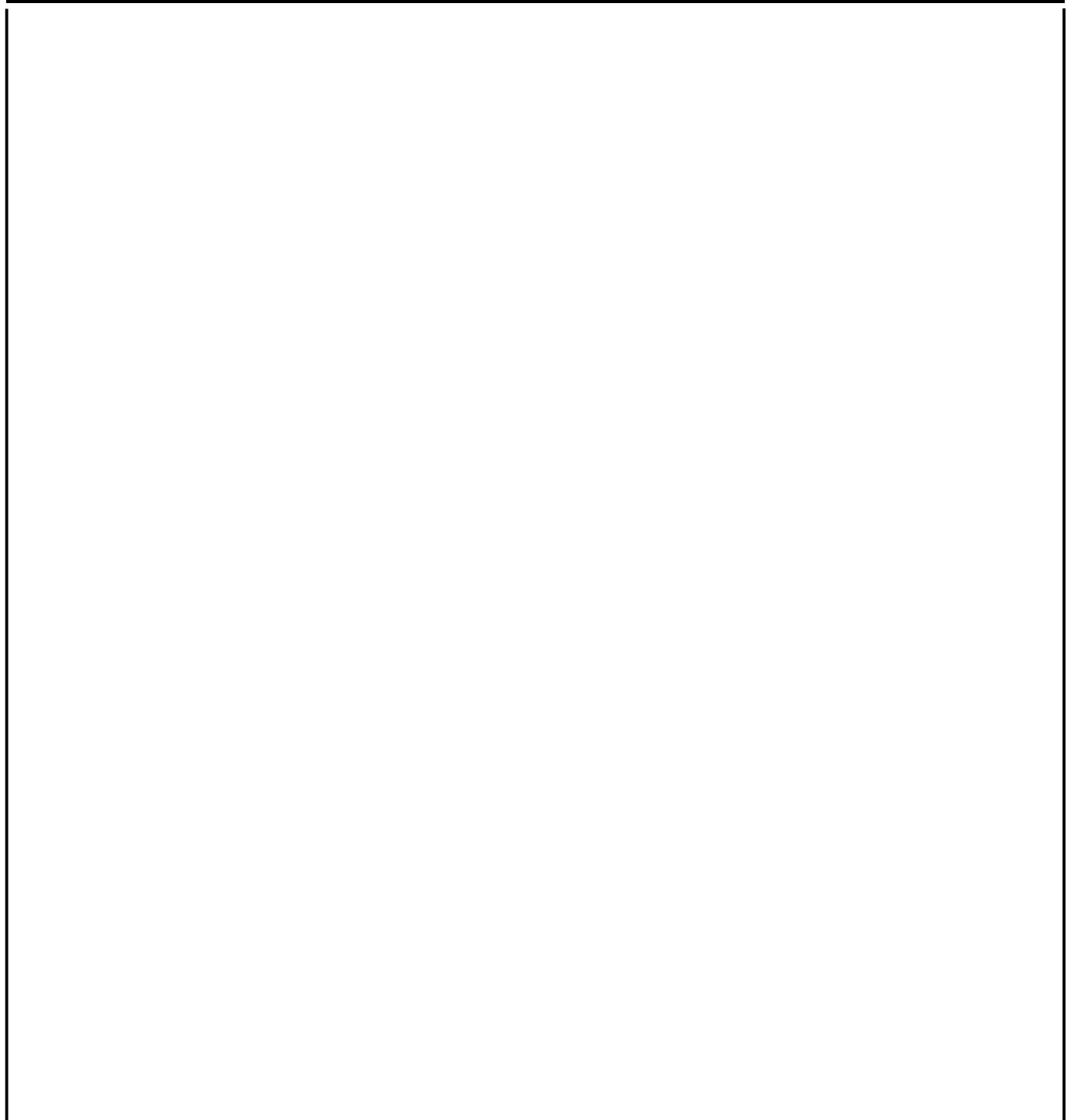
|                           |                |
|---------------------------|----------------|
| Soldering Temperature     | Max. 350°C     |
| Continuous Soldering Time | Max. 3 seconds |

■ Notes on storage conditions:

Do not store in the following environment or it may affect product's function and solderability:

1. temperature of -10 (max) ~ +40 (min) °C & humidity at 85% (min)
2. environment with corrosive gas
3. storage over 6 months
4. place of direct sunlight





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