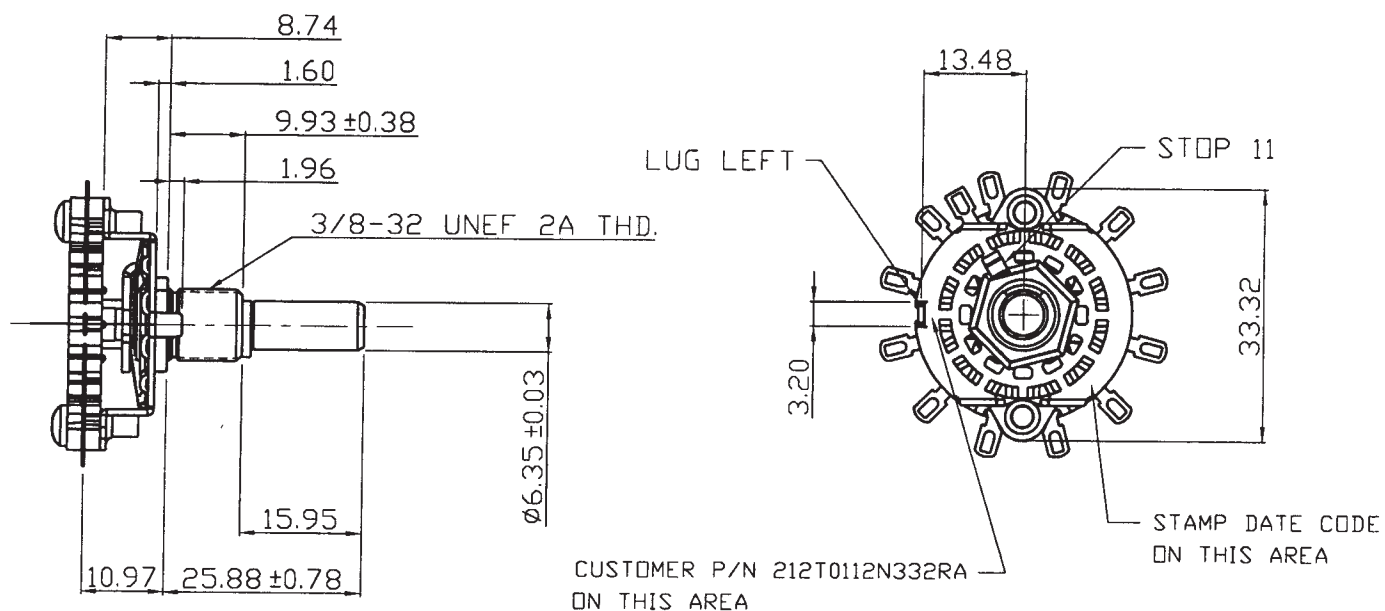
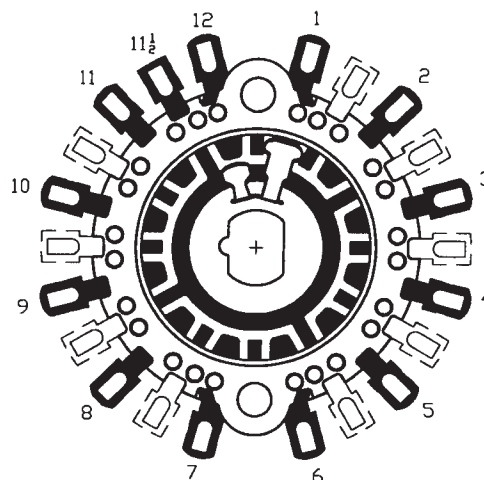




## NOTES :

1. PRINT IS ACCORDING TO BRD P/N 212T0112N332RA
2. LOCK WASHER , MOUNTING NUT & ADJUST STOP MUST BE SHIPPED SEPARATELY(UNASSEMBLED) FROM SELECTOR SWITCH  
LOCKWASHER P/N 1220A  
MOUNTING NUT P/N 45T-3  
ADJUST STOP P/N 215-33-003-01-53
3. STOPS MUST BE LOCATED ON POSITION 11 ONLY
4. WAFER CONFROM TO 212-95-T01-00-00

| POSITION : 12 |                         |      |        |             |                         |      |        |
|---------------|-------------------------|------|--------|-------------|-------------------------|------|--------|
| POSITION      | CHECK BETWEEN TERMINALS | OPEN | CLOSED | POSITION    | CHECK BETWEEN TERMINALS | OPEN | CLOSED |
| 11            | 11 1/2-11               |      | X      |             |                         |      |        |
| 10            | 11 1/2-10               |      | X      |             |                         |      |        |
| 9             | 11 1/2-9                |      | X      |             |                         |      |        |
| 8             | 11 1/2-8                |      | X      |             |                         |      |        |
| 7             | 11 1/2-7                |      | X      |             |                         |      |        |
| 6             | 11 1/2-6                |      | X      |             |                         |      |        |
| 5             | 11 1/2-5                |      | X      |             |                         |      |        |
| 4             | 11 1/2-4                |      | X      |             |                         |      |        |
| 3             | 11 1/2-3                |      | X      |             |                         |      |        |
|               | 11 1/2-2                |      | X      |             |                         |      |        |
| 2             | 11 1/2-1                | X    |        |             |                         |      |        |
|               | ALL OTHERS              | X    |        |             |                         |      |        |
| 1             | 11 1/2-1                |      | X      | 12          | 11 1/2-12               |      | X      |
| POSITION      | CHECK BETWEEN TERMINALS | OPEN | CLOSED | POSITION    | CHECK BETWEEN TERMINALS | OPEN | CLOSED |
| CIRCUIT       |                         |      |        | CONNECTIONS |                         |      |        |



VIEW FROM SHAFT SIDE

CTS

COMPONENTS TAIWAN LTD.  
KAOHSIUNG, TAIWAN, ROCCAD LIST : ACAD(A)-RDC-80  
FILE NAME : 212T0112N332RA

|                         |                                                                                                          |     |                                                                                                   |                                                                                                     |
|-------------------------|----------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| PART NO. 212T0112N332RA |                                                                                                          | REV | CUSTOMER : DIGI-KEY                                                                               |                                                                                                     |
| SCALE : N/A             | TOLERANCE UNLESS OTHERWISE SPECIFIED<br>.X (1 PLACE) : ± 0.2<br>.XX (2 PLACE) : ± 0.12<br>ANGLE : ± 1.0° |     | DRAWN BY : ALEX HUANG                                                                             | APPROVED BY :  |
| CTS TYPE : 212-T212-1   |                                                                                                          |     | CHECKED BY :  | ISSUED DATE : 08/15/06'                                                                             |

# CTS COMPONENTS TAIWAN, LTD.

|                                               |  |  |                   |                            |  |
|-----------------------------------------------|--|--|-------------------|----------------------------|--|
| ENGINEERING SPECIFICATION                     |  |  |                   | SPEC NO.<br>EN-SPE-212001A |  |
| SPECIFICATION :<br>212 SERIES SELECTOR SWITCH |  |  | DATE<br>03-19-02' | PAGE OF<br>1 OF 2          |  |

## 1.0 GENERAL :

1.0 THIS SPECIFICATION APPLIES TO THE SELECTOR SWITCH 212 SERIES  
( ROTARY TYPE ) STANDARD AND CUSTOMER CONFIGURATION

1.1 OPERATING TEMPERATURE RANGE : -20 °C TO +110 °C

1.2 STORAGE TEMPERATURE RANGE : -20 °C TO +110 °C

## 2.0 MECHANICAL CHARACTERISTICS :

2.1 INDEXING : DOUBLE BUMP SPRING HILL AND VALLEY DETENT WITH 30°  
INDEXING FOR 2 THROUGH 12 POSITIONS OR CONTINUOUS ROTATION

2.2 DETENT ROTATIONAL LIFE : 25,000 CYCLES THRU 12 POSITIONS AND RETURN  
AT 10 CYCLES PER MINUTE

TORQUE : AS REQUIRED UP TO 48 inch. oz ( 3.4 kg-cm )

2.3 STOP STRENGTH :  
STANDARD : 15 inch-lbs ( 17 kg-cm )

2.4 MATERIAL :

SHAFT :

☒ ALUM ☐ BRASS ☐ BRASS WITH NI-PLATED

☐ BRASS WITH ZINC PLATED ☐ \_\_\_\_\_

BUSHING :

☐ BRASS WITH NI-PLATED ☐ BRASS WITH ZINC PLATED

☒ BRASS

DETENT SPRING : STAINLESS STEELS, OR SPRING BRASS DEPENDING ON TORQUE REQUIREMENT.

DETENT PLATE : STEEL

CONTACT : SILVER PLATED PHOSOPHER BRONZE

TERMINAL : SILVER PLATED BRASS STANDARD

STATOR : GLASS REINFORCED PPA UL FLAME CLASS 94V-0

ROTOR AND ROTOR COVER : NYLON 66 UL FLAME CLASS 94V-2

|                       |                |          |    |                    |          |      |    |
|-----------------------|----------------|----------|----|--------------------|----------|------|----|
| A                     | ITEM 4.0 ADDED | 08-02-05 | SM |                    |          |      |    |
| 0                     | RELEASED       | 03-19-02 | ML |                    |          |      |    |
| SYM                   | REVISION       | DATE     | BY | SYM                | REVISION | DATE | BY |
| WRITTEN BY : S.M.TSAI |                |          |    | CUSTOMER : GENERAL |          |      |    |
| REVIEWED BY : H.Y.LIN |                |          |    | DISTRIBUTION :     |          |      |    |
| APPROVED BY : T.J.LEE |                |          |    |                    |          |      |    |

# CTS COMPONENTS TAIWAN, LTD.

|                                               |                   |                            |
|-----------------------------------------------|-------------------|----------------------------|
| ENGINEERING SPECIFICATION                     |                   | SPEC NO.<br>EN-SPE-212001A |
| SPECIFICATION :<br>212 SERIES SELECTOR SWITCH | DATE<br>03-19-02' | PAGE OF<br>2 OF 2          |

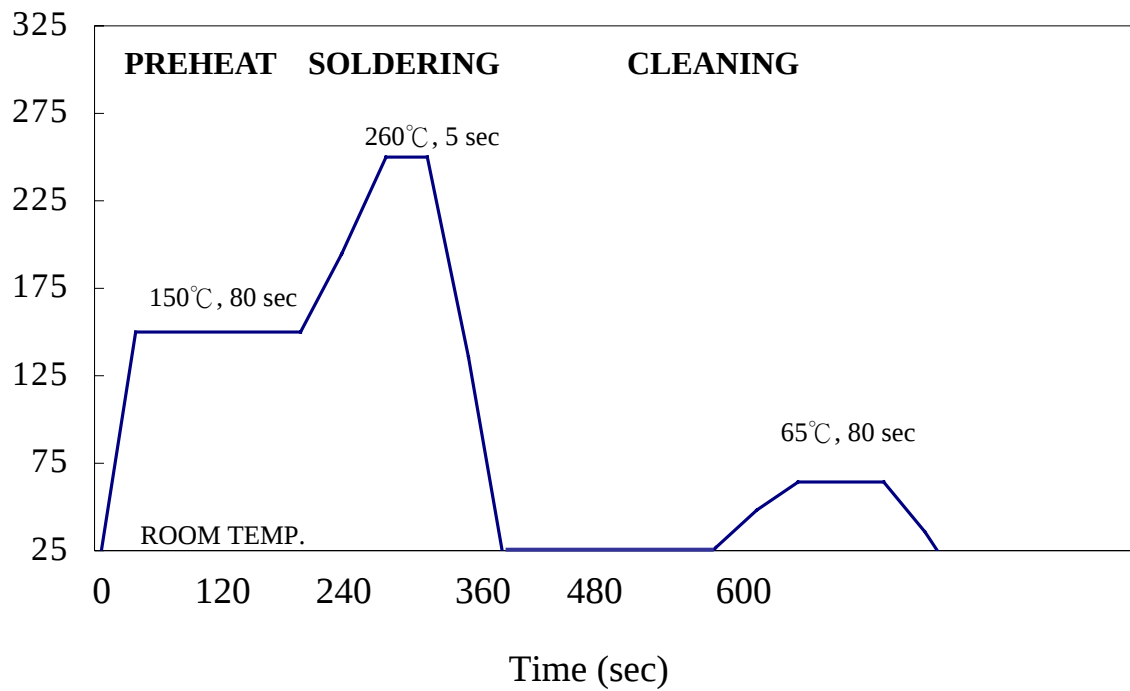
## 3.0 ELECTRICAL CHARACTERISTICS :

- 3.1 CONTACT RESISTANCE : 0.015 OHMS MAX MEASURED FROM ONE TERMINAL TO AN ADJACENT TERMINAL. ( WHEN IS NOT ADJACENT, UP TO 180° APART, WILL MEASURE MUCH HIGHER DUE TO THE EXTRA METAL IN THE CIRCUIT ) . THE CIRCUIT RESISTANCE CHECK MEASURE ALL THE METAL IN THE CIRCUIT.
- 3.2 CONTACT LIFE : ROTATION THROUGH 12 POSITIONS AND RETURN WITHOUT APPRECIABLE RISE IN CONTACT RESISTANCE  
UNLOADED : 50,000 CYCLES  
LOADED ( RESISTIVE ) : 10,000 CYCLES
- 3.3 RATING :  
¾ AMP @ 125 VAC  
¼ AMP @ 250 VDC ( SHORTING TYPE ONLY )  
½ AMP @ 125 VDC ( SHORTING TYPE ONLY )  
¼ AMP @ 28 VDC ( SPECIAL RATING)
- 3.4 HI POT TEST :  
BETWEEN ADJACENT 15 DEG. CIRCUITS : 750 VAC RMS FOR 1 MINUTE  
BETWEEN GROUND AND NEAREST TERMINAL : 1500 VAC FOR 1 MINUTE  
THE TEST VOLTAGE SHALL BE APPLIED BETWEEN ALL EVEN-NUMBERED CONTACTS TIED TOGETHER AND ALL ODD-NUMBERED CONTACTS TIED TOGETHER AND BETWEEN EACH OF THIS GROUP AND THE SWITCH FRAME FOR EACH SWITCH.

**4.0 RoHS COMPLIANCE :** THIS PART IS COMPLIANT WITH EU RoHS DIRECTIVE.

|                                                                                 |          |      |    |                                          |          |      |    |
|---------------------------------------------------------------------------------|----------|------|----|------------------------------------------|----------|------|----|
|                                                                                 |          |      |    |                                          |          |      |    |
| SYM                                                                             | REVISION | DATE | BY | SYM                                      | REVISION | DATE | BY |
| WRITTEN BY : S.M.TSAI<br><br>REVIEWED BY : H.Y.LIN<br><br>APPROVED BY : T.J.LEE |          |      |    | CUSTOMER : GENERAL<br><br>DISTRIBUTION : |          |      |    |

## 212 SOLDERING PROCESS



1. The temperature is referring to PC board, soldering or cleaning water temperature.



**ООО «НИОКРсистемс»** - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

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- Индивидуальный подход
- Гибкое ценообразование
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