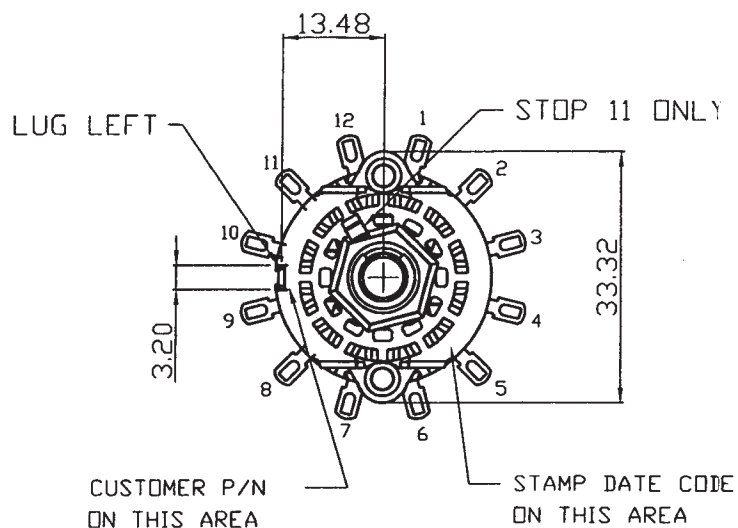
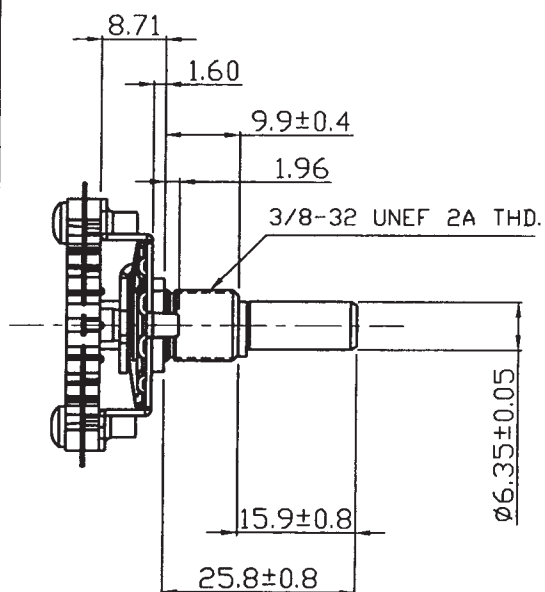


UNIT : MM



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

## NOTES :

1. DIMENSIONS FOLLOWED BY REF. ARE FOR INFORMATION PURPOSES ONLY AND WILL NOT GOVERN INSPECTION OR PRODUCTION OPERATION
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 CONFORM TO 212-95-T31-00-00
5. SHORTING CONTACTS AT ALL POSITIONS
6. FOR ADDITIONAL REQUIREMENTS SEE CTS ENG. SPEC #EN-SPE-212001A

CTS

COMPONENTS TAIWAN LTD.  
KAOHSIUNG, TAIWAN, ROCCAD LIST : ACAD(A)-RDC-227  
FILE NAME : 111S332R

PART NO. 212T0111S332RA

REV

CUSTOMER : DIGI-KEY

SCALE : N/A

TOLERANCE UNLESS OTHERWISE  
SPECIFIED

DRAWN BY : C.E.Chen

APPROVED BY : *Be Chen*

CTS TYPE : 212-T212-1

.X (1 PLACE) :  $\pm 0.3$   
.XX (2 PLACE) :  $\pm 0.13$   
ANGLE :  $\pm 1^\circ$ CHECKED BY : *[Signature]*

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          |

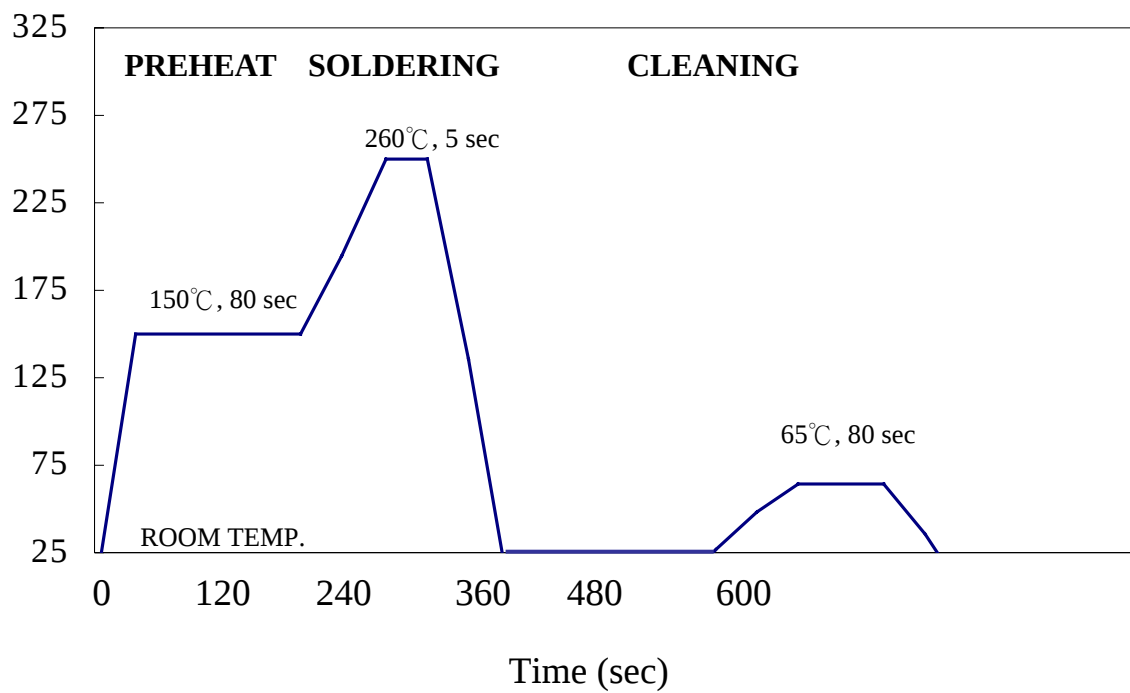
## 3.0 ELECTRICAL CHARACTERISTICS :

- 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.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

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<http://moschip.ru/get-element>

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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