UNIT : MM

8.74
1.60
9.93 ±0.38
1.96

3/8-32 UNEF 2A THD.

Ø6.35 ±0.03

15.95
10.97   25.88 ±0.78

13.48

LUG LEFT   STOP 11
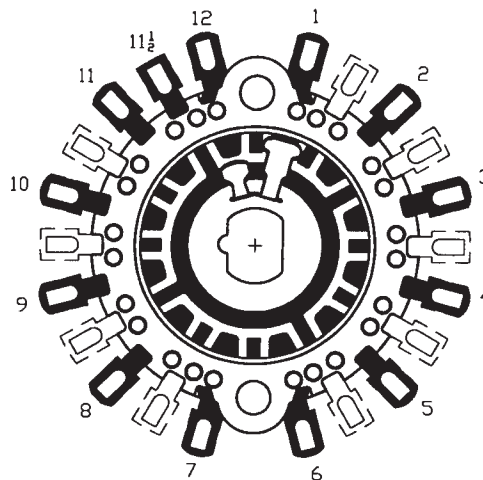
33.32

3.20

STAMP DATE CODE
ON THIS AREA

CUSTOMER P/N 212T0112N332RA
ON THIS AREA

NOTES :

1. PRINT IS ACCORDING TO BRO 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, ROC

CAD LIST : ACAD(A)-RDC-80
FILE NAME : 212T0112N332RA

PART NO.   212T0112N332RA   REV

CUSTOMER :   DIGI-KEY

SCALE : N/A

TOLERANCE UNLESS OTHERWISE
SPECIFIED
.X (1 PLACE) : ± 0.2
.XX (2 PLACE) : ± 0.12
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.

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 ℃ TO +110 ℃

1.2 STORAGE TEMPERATURE RANGE： -20 ℃ TO +110 ℃

2.0 MECHANICAL CHARACTERISTICS :

2.1 INDEXING：DOUBLE BUMP SPRING HILL AND VALLEY DETENT WITH 30º
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

SYM	REVISION	DATE	BY	SYM	REVISION	DATE	BY
A	ITEM 4.0 ADDED	08-02-05	SM				
0	RELEASED	03-19-02	ML				

WRITTEN BY : S.M.TSAI

REVIEWED BY : H.Y.LIN

APPROVED BY : T.J.LEE

CUSTOMER : GENERAL

DISTRIBUTION :

CTS COMPONENTS TAIWAN, LTD.

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 180º 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
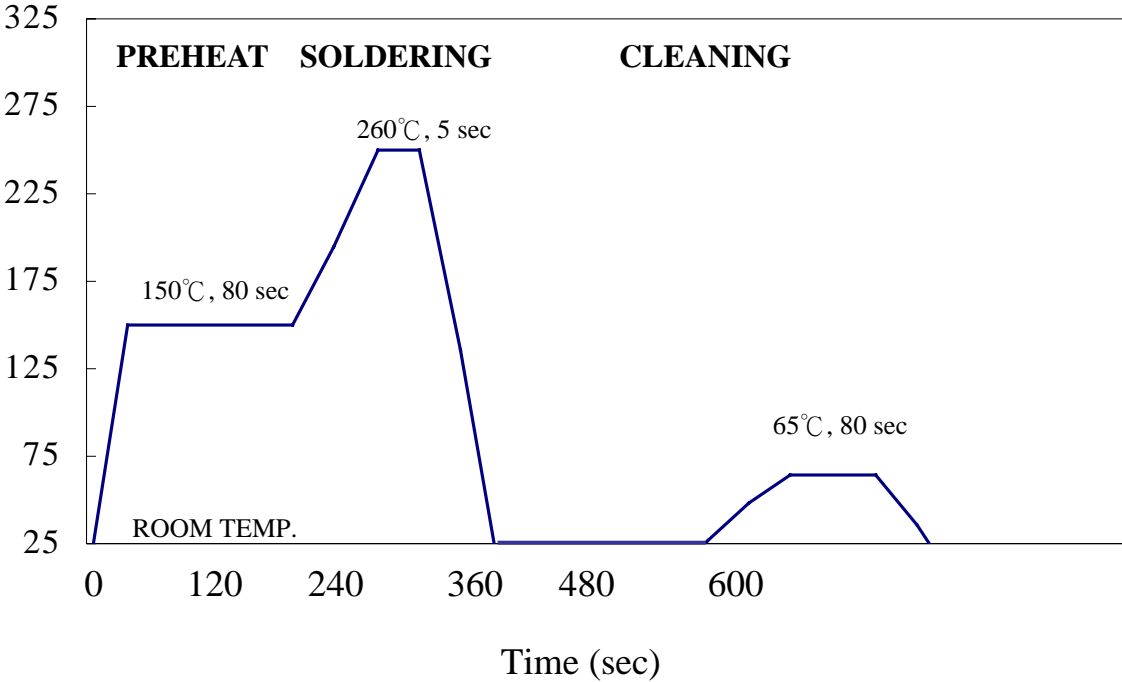UNLOADED： 50,000 CYCLES
LOADED（RESISTIVE）： 10,000 CYCLES

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	CUSTOMER : GENERAL
REVIEWED BY : H.Y.LIN	DISTRIBUTION :
APPROVED BY : T.J.LEE	

212 SOLDERING PROCESS

PREHEAT   SOLDERING   CLEANING

260℃, 5 sec

150℃, 80 sec

65℃, 80 sec

ROOM TEMP.

Time (sec)

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