

**SUBJECT: Thick Film Chip Resistor Discontinuation ERJ-1WY, -1WNF, -1WR**

**BULLETIN #: PG42111000**

**Date: November 10, 2000**

**Last Order Date: January 31, 2001**

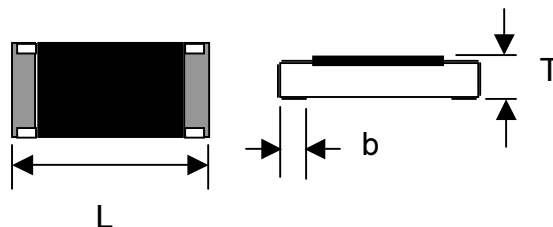
**Last Ship Date: April 30, 2001**

**SUGGESTED REPLACEMENT: See table below**

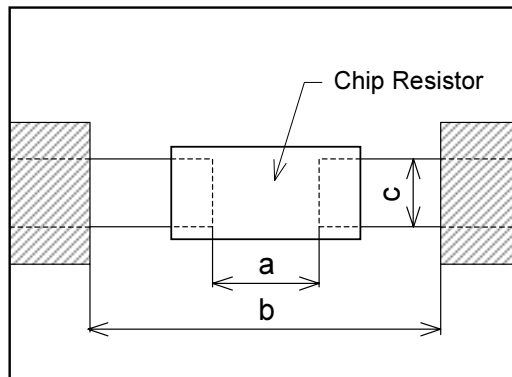
Affected series:

<u>Discontinued</u>	<u>Qty. per reel</u>	<u>Replace with thinner</u>	<u>Qty. per reel</u>
ERJ-1WY Size 2512, 5%	3,000	<u>ERJ-1TY</u>	4,000
ERJ-1WNFxxxxU Size 2512, 1%	3,000	<u>ERJ1TNFxxxxU</u>	4,000
ERJ-1WR Size 2512, low resistance	3,000	<u>ERJ-1TR</u>	4,000

		Current Type (Thick)	New Type (Thin)
Dimensions (in mm)	L	6.4	6.4
	W	3.2	3.2
	T	1.1	0.6
	b	1.3	0.6
Protective Coating		Glass	Resin
Side Electrode		Metal with Glass	Metal with Resin
Panasonic Part Number		ERJ-1W	<u>ERJ-1T</u>
		ERJ1WR	<u>ERJ-1TR</u>



## Recommended Land Pattern



Type	Dimensions (mm)		
	a	b	c
ERJ1W	3.6 to 4.0	7.6 to 8.6	2.3 to 3.5
ERJ1T	5.0 to 5.4	7.6 to 8.6	2.3 to 3.5

## *Technical Data*

### Thick Film Chip Resistors

#### ERJ1T (2512 Thin) Type

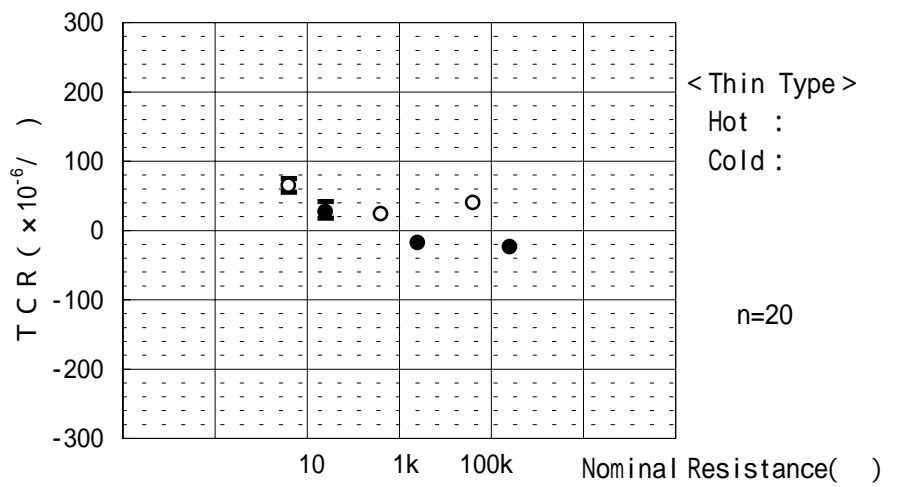
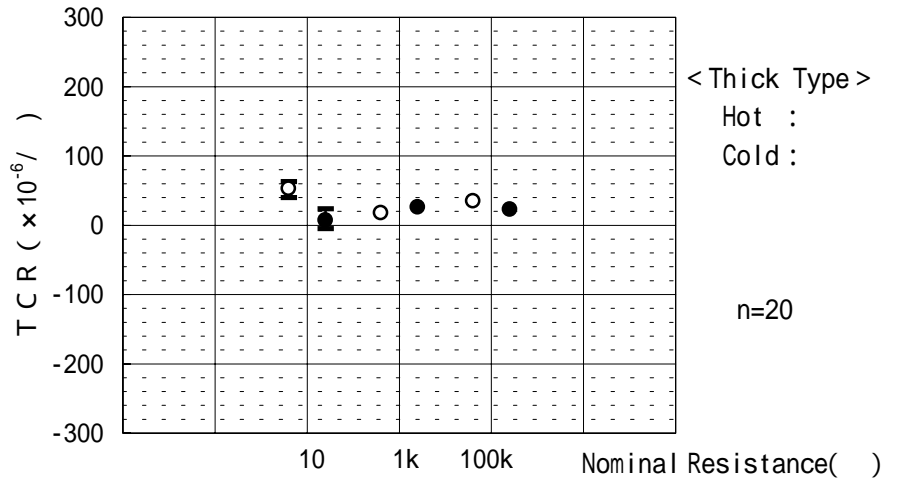
( Comparison for Thick Type (t=1.1mm) to Thin Type (t=0.6mm) )

- 1 . Temperature Coefficient of Resistance
- 2 . Short Time Overload
- 3 . Resistance to Soldering Heat
- 4 . High Temperature Exposure
- 5 . Temperature Cycling
- 6 . Humidity
- 7 . Load Life
- 8 . Load Life in Humidity
- 9 . Pulse
- 10 . Terminal Strength
- 11 . Bending Strength
- 12 . Surface Temperature

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RESISTOR DIVISION

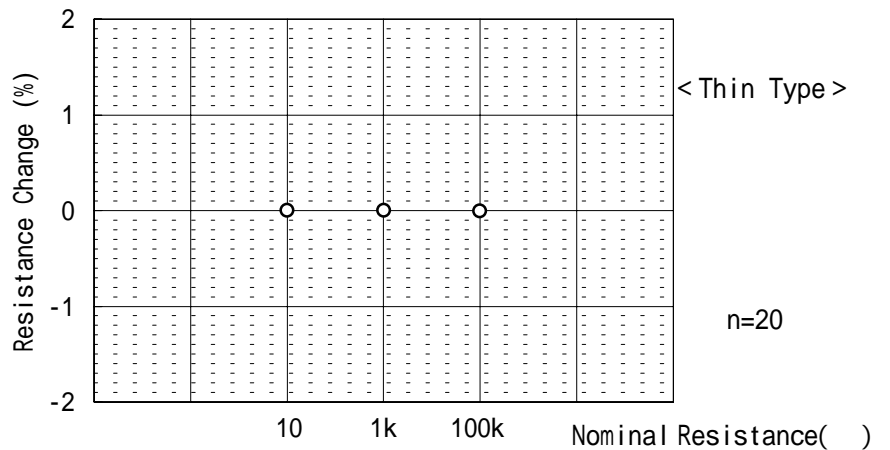
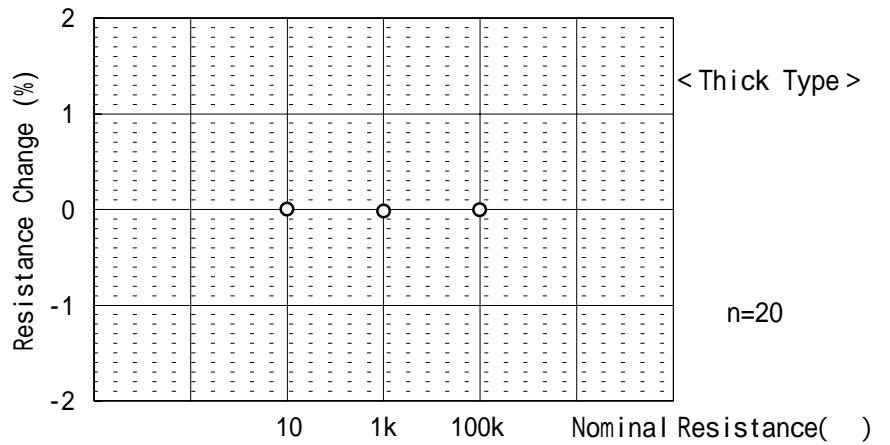
( 1 ) T C R

Hot : 25 ~ 125  
 Cold: -55 ~ 25



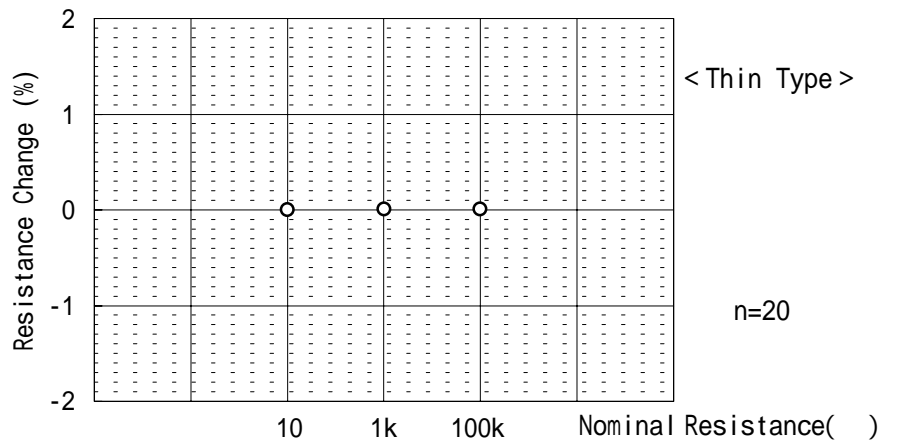
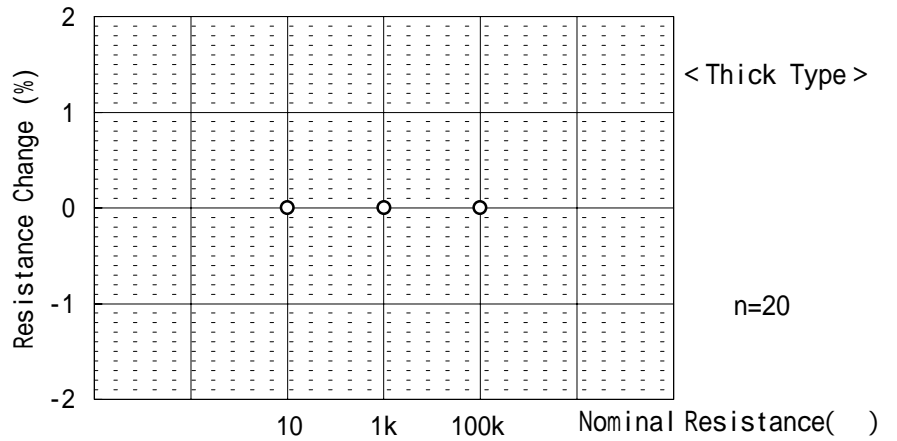
( 2 ) Short Time Overload

RCWV x 2.5 times  
 (Max. 500V)  
 5 seconds



( 3 ) Soldering Heat

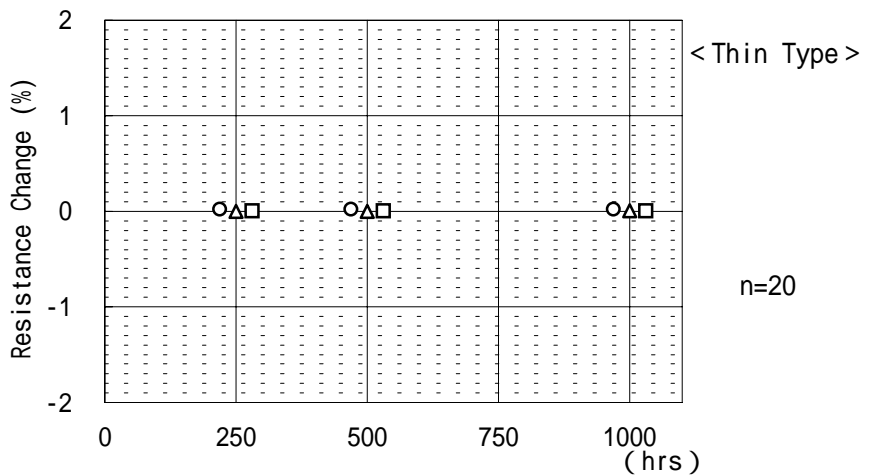
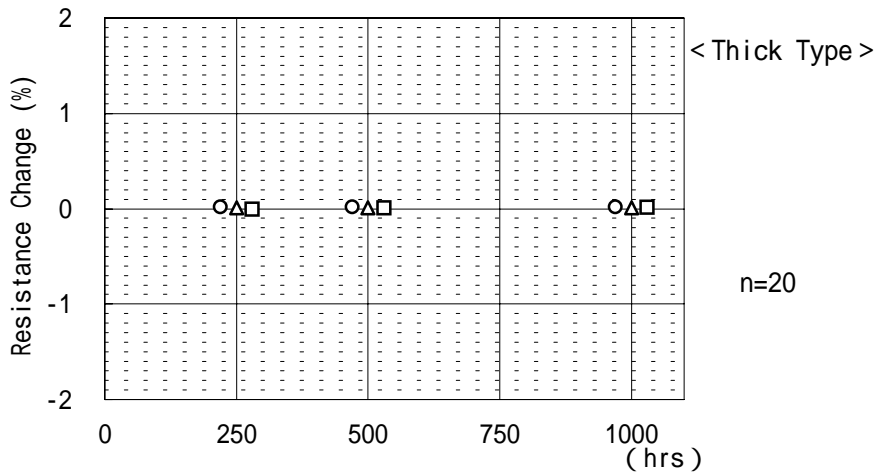
Solder Bath : 270  
Dipping : 10 sec.



( 4 ) High Temp. Exposure

125 °C, 1000 hrs,  
without load

- : 10
- : 1k
- : 100k



# Technical Data

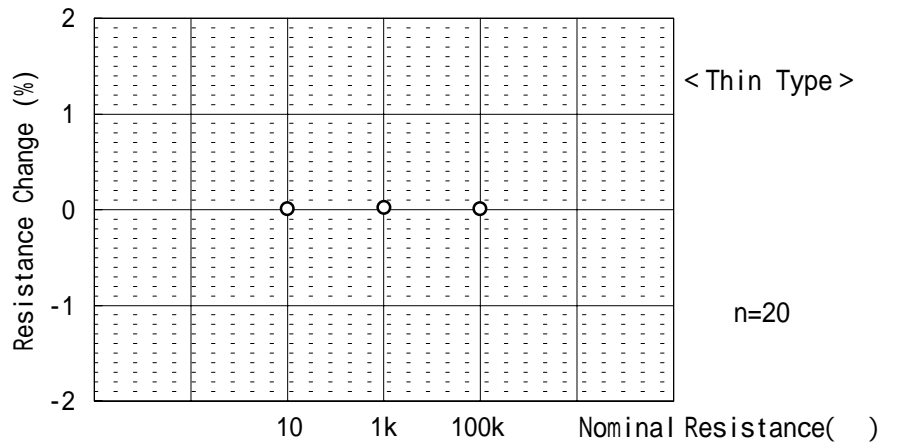
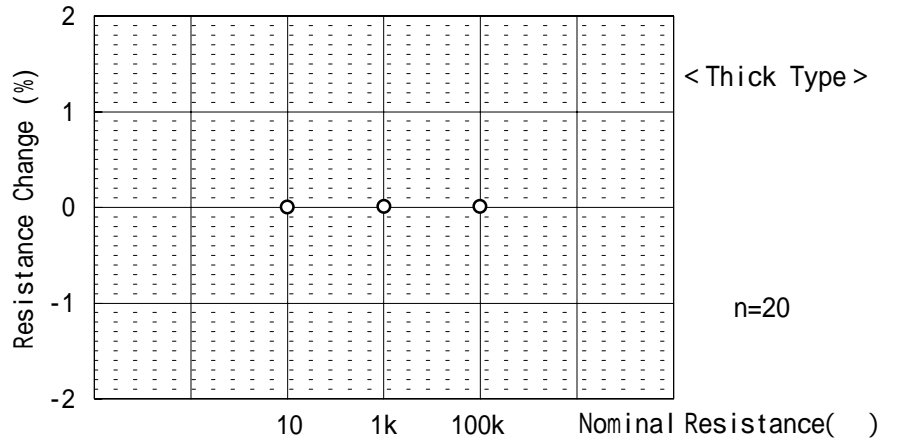
E R J 1 T ( 2512 )

## ( 5 ) Temp. Cycling

-55 30 min.

Room Temp. 30 min., 100 cyc.

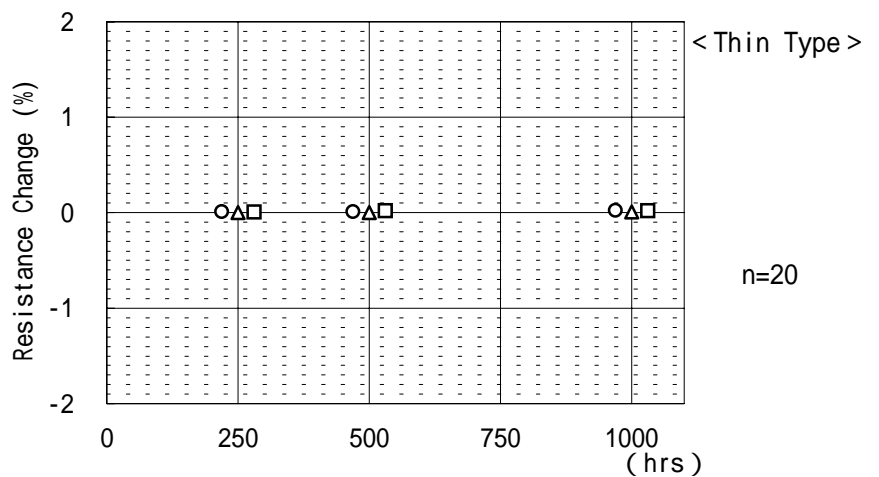
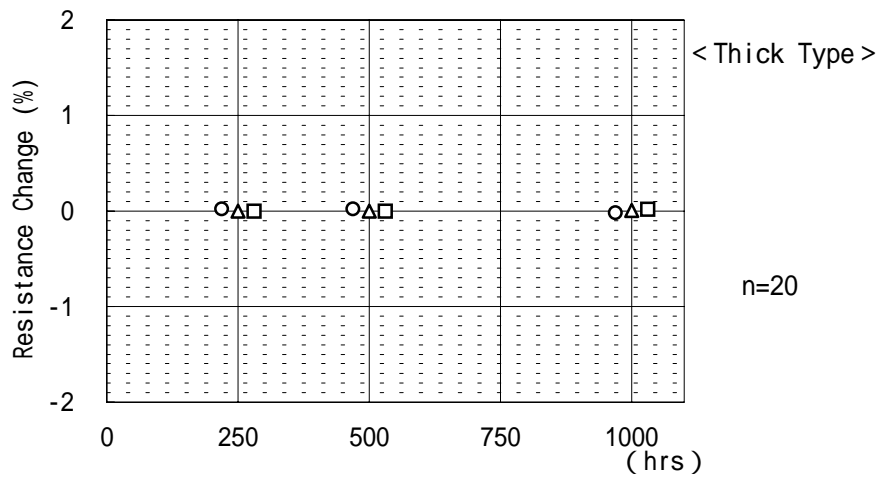
125 30 min.



## ( 6 ) Humidity

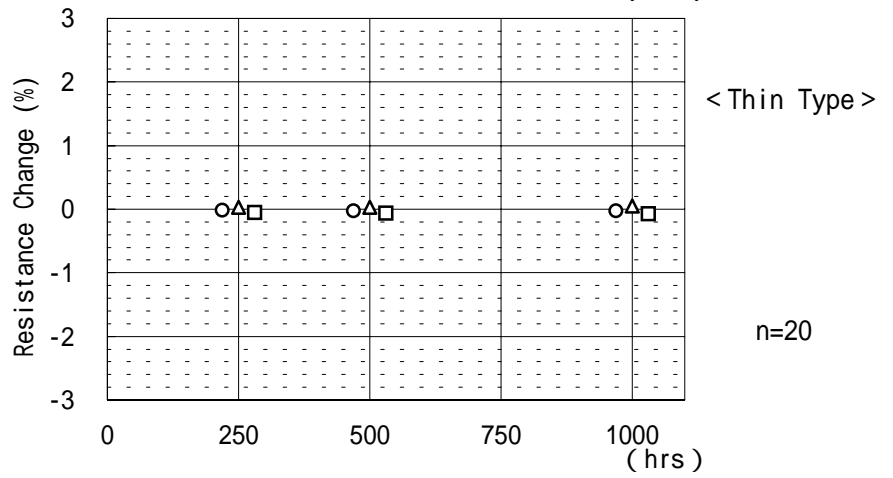
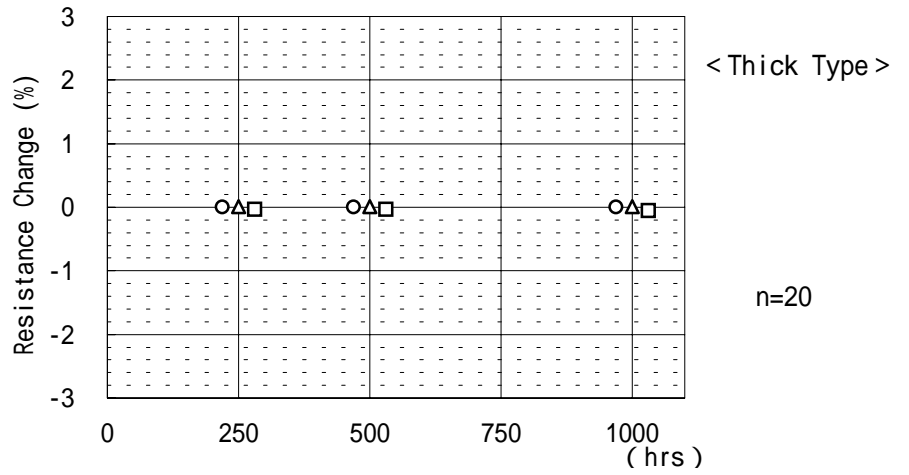
60 ,95%RH,  
1000 hrs, without load

- : 10
- : 1k
- : 100k



( 7 ) Load Life

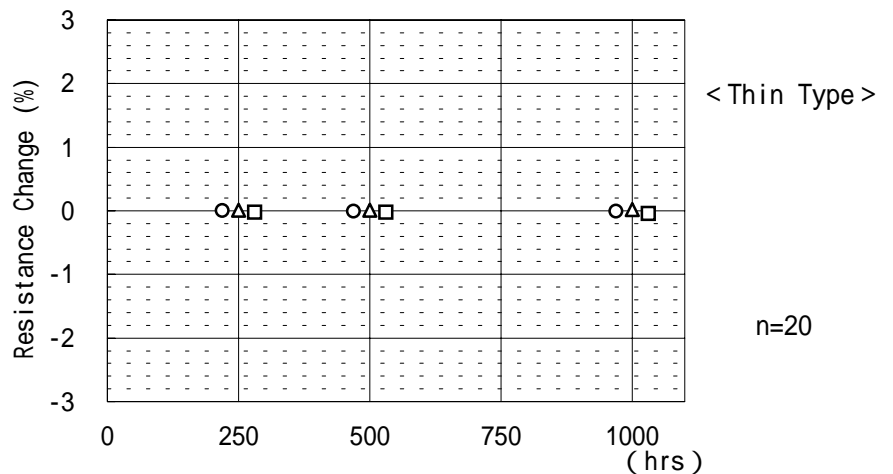
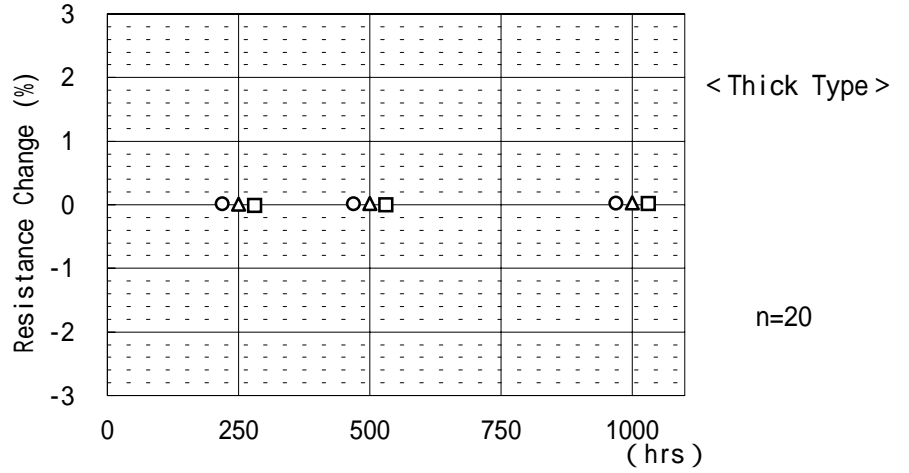
RCWV 1.5 hrs ON -  
0.5 hrs OFF, at 70  
1000 hrs



( 8 ) Load Life in Humidity

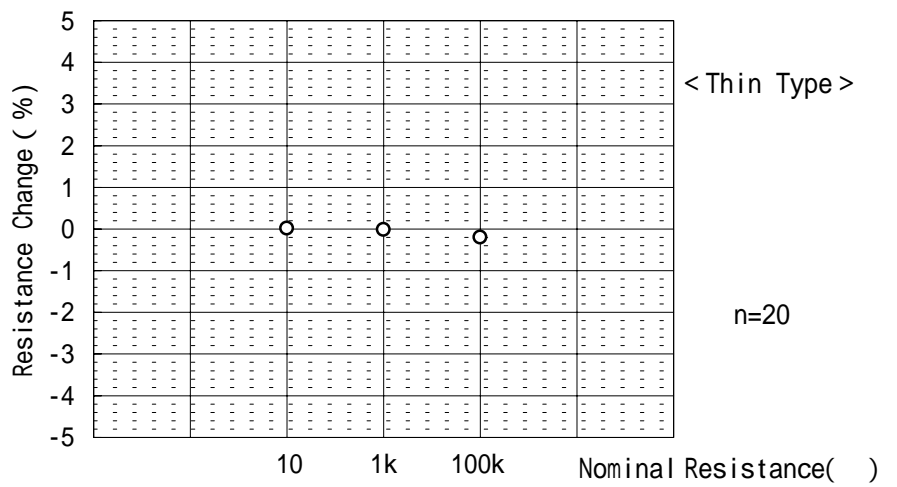
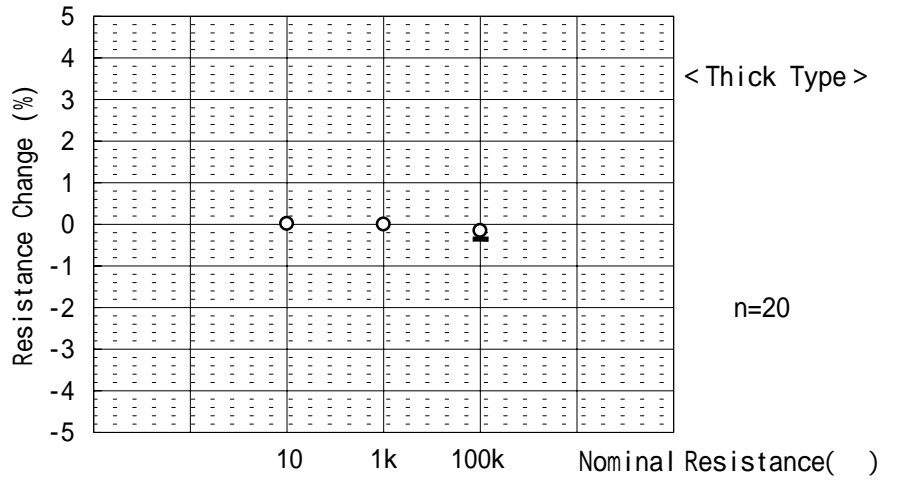
RCWV 1.5 hrs ON -  
0.5 hrs OFF, at 60  
95%RH, 1000 hrs

- : 10
- : 1k
- : 100k

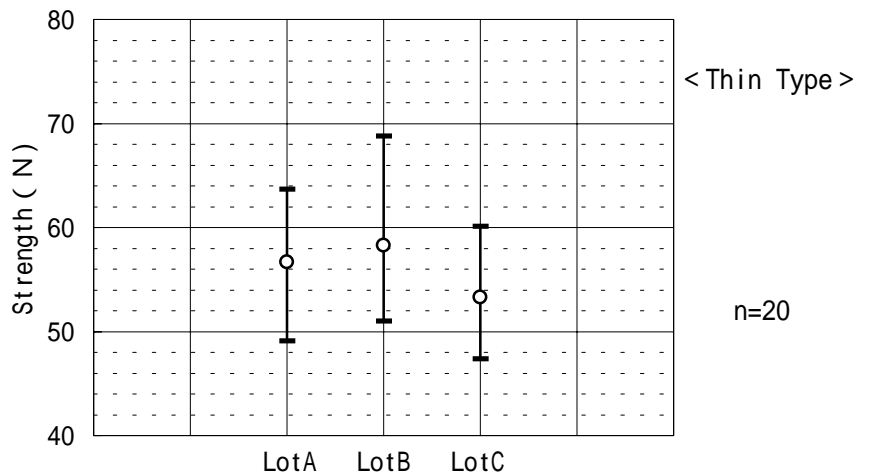
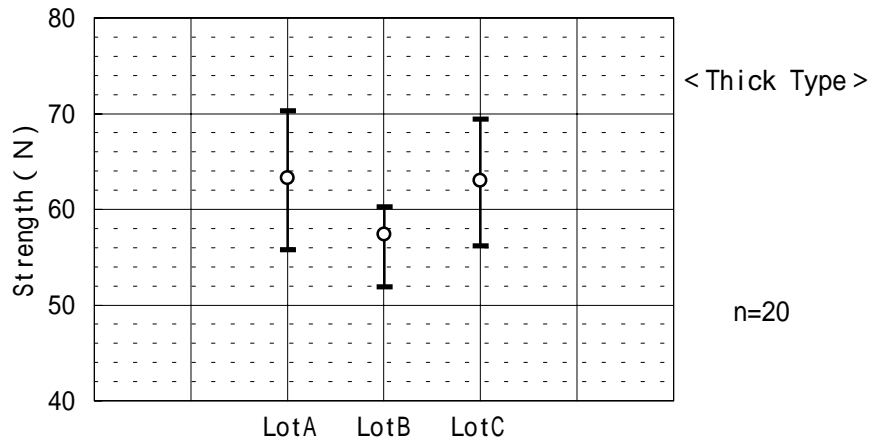
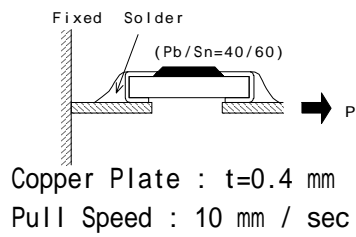


( 9 ) Puls

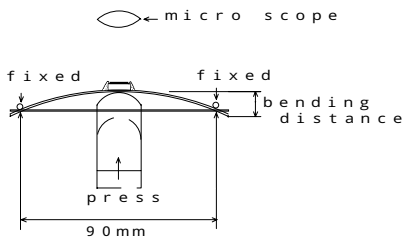
RCWV x 2.5 times  
 (Max.500V)  
 1 sec ON – 25 sec OFF  
 10,000 cycle



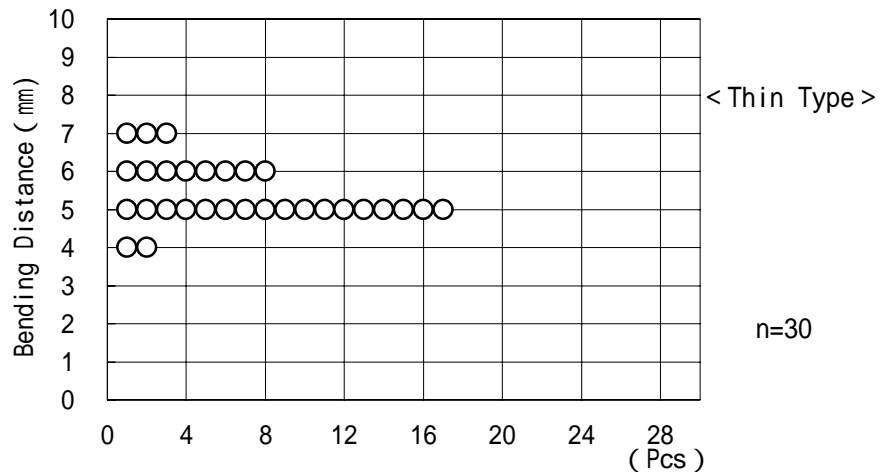
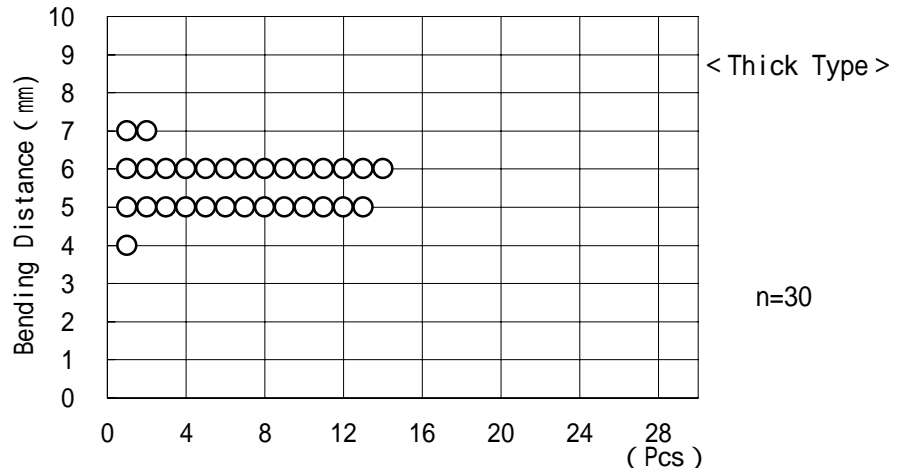
( 10 ) Terminal Strength



( 11 ) Bending Strength



10 sec. Hold  
Glass Epoxy Substrate  
(t=1.6 mm)



( 12 ) Surface Temperature

Substrate : Glass Epoxy

