

For Alminum & Tantalum Capacitors



1kHz/120Hz CAP-tan $\delta$  Capacitance Checker

**Model 6331**

5 classify function-judged output by Digital Comparator

Measuring Frequency	1kHz/120Hz
Measuring range	CAP : 2.00nF~39.99mF tan $\delta$ : 0~99.9%
Measuring time	24msec approx.
Comparator judgement	CAP-5 classify (3 classify for good of H&L) tan $\delta$ -2 classify
DC Bias	Internal DC1.5V External DC 0V~+25V
Option	RS-232, GP-IB & Printer output



*For more better performance*

**RST ENGINEERING CO., LTD**

KYOTO JAPAN



Frequency	1kHz/120Hz (changeover)	
High measuring speed	24msec approx.(120Hz,1kHz)	
Measuring range	[C] 2.00nF ~ 39.99mF	[tan $\delta$ ] 0 ~ 99.9%
5 classify Comparator	C LO, C2 LO, C2 HI, C HI	
2 classify Comparator	tan- $\delta$ HI	

## Specification

Range & Accuracy (at 23°C $\pm$ 5°C)C : 200(count) ~ 3999(count)/tan  $\delta$  : <99.9% (full scale)

Range	1kHz	40nF	400nF	4 $\mu$ F	40 $\mu$ F	400 $\mu$ F	4mF	
	120Hz	400nF	4 $\mu$ F	40 $\mu$ F	400 $\mu$ F	4mF	40mF	
C Accuracy	$\pm 0.3\% \pm 2(\text{COUNT})$						$\pm \alpha\% \pm 5(\text{COUNT})$	
tan- $\delta$ Accuracy	$\pm \left( \frac{\tan \delta (\text{COUNT}) \times 0.3}{100} + 1 + \frac{C_x (\text{COUNT})}{500} \right)$						$\pm \left( \frac{\tan \delta (\text{COUNT})}{100} + \beta + \frac{C_x (\text{COUNT})}{500} \right)$	
Measuring mode	serial equivalent circuit							
Measuring voltage	open Voltage within 400mV(rms)							

$$\alpha = 0.5 (120\text{Hz}) / 1 (1\text{kHz})$$

$$\beta = 5 (120\text{Hz}) / 10 (1\text{kHz})$$

Measuring method	5 terminal measurement
Frequency	1kHz/120Hz $\pm$ sine wave
Measuring speed	Remort starat 24msec approx. (1kHz,120Hz) Free running 15 per sec
DC Bias	internal DC 1.5V external DC 0 ~ +25V
Comparator setting	CAP both HI,LO 200 ~ 3999 digital switch setting (C LO, C2 L, C2 HI, C HI) tan- $\delta$ 0 ~ 99.9% digital switch setting (tan- $\delta$ HI)
Control signal	Remote hold, start & compareator reset input
Judged output	Open collector output C-NG, C1,C2, C3, C+NG $\delta$ GO, $\delta$ NG C/DGO
Power source	AC100V/117/220V/240V (changover) 30VA approx.
Dimensions	400(W) $\times$ 99(H) $\times$ 255(D)mm
Weight	Approx. 7kg
Option	GP-IB, RS-232C, PRINTER outoput

Subject to change specifications for improvement without notice.



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