

For Alminum Electrolytic, Tantalum Capacitors
120Hz CAP-tan δ Capacitance Checker

CAP display 200~3999

Model 6431

Comparative judgement : Judged output by Digital Comparator built in

- ◆ Measurement Frequency 120Hz
- ◆ Measurement range CAP : 20.0nF~39.99mF tan δ : 0~99.9%
- ◆ Measurement time 25msec approx.
- ◆ Comparative judgement CAPcomparison—3classification
tan δ comparison—2classification
- ◆ Total judgement C/D GO



RST ENGINEERING CO., LTD

KYOTO, JAPAN

For Aluminum Electrolytic, Tantalum capacitors

120Hz CAP-tan δ Checker

Model 6431

Model 6431 is measurement frequency 120Hz Capacitance Measuring Meter.

Capacitance comparative judgement are 3 classifications of CAP judgement(2 steps setting) and 2 classifications of tan δ judgement (1 step setting).

| | | | |
|------------------------------|-----------------|-------------------|--|
| Frequency | 120Hz | Measurement range | [C] 20.0 nF ~ 39.99 mF [tan δ] 0 ~ 99.9% |
| Ultra high speed measurement | 25 msec approx. | | |

Specifications

Measuring & accuracy (23°C±5°C)

| Range | 400nF | 4 μ F | 40 μ F | 400 μ F | 4mF | 40mF |
|-----------------------|---|-----------|------------|-------------|-----|--|
| Cap - accuracy | $\pm 0.3\% \pm 2(\text{COUNT})$ | | | | | $\pm \alpha\% \pm 5(\text{COUNT})$ |
| tan δ 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 | Series equivalent circuit | | | | | |
| Measuring Voltage | Open circuit Voltage within 380mV(rms) | | | | | |

$\alpha = 1$ $\beta = 10$

| | |
|---|--|
| Measurement method | 5 terminal system |
| Measurement Frequency | 120Hz $\pm 0.1\%$ Sine wave |
| Measurement time | Remote start 25 msec approx. Free running 15 times / sec approx. |
| CAP measured display tan δ measured display | display limit : 200 ~ 3999 display limit : 0.0% ~ 99.9% |
| Comparator settin | CAP 200 ~ 3999 C- LO & C- H I by Digital SW tan δ 0 ~ 99.9% tan δ H I by Digital SW |
| Control signal | Remote HOLD input, Remote start, Comparator resetting input (judged result resetting input), EOC output. |
| Judged output | Open-collector output CAP judgement C-NG, C-GO, C+NG tan δ judgement D GO, D NG Total judgement C/D GO |
| Power supply | 110V or 220V $\pm 10\%$ 50/60Hz |
| Dimensions | 480(W) \times 99(H) \times 300(D) mm |
| Weight | 7 kg approx. |

※ Specifications and design are subject to change without notice for improvement.



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