

Model **AE-365E** Ultra high speed & high accuracy 120Hz/1kHz Digital Capacitor Checker

Most suitable model for inspection on taping machine of "CHIP", "MELF", "RADIAL" and "AXIAL" Capacitor

Characteristic

- Ultra high speed: 1msec.【TYP】(Measurement time)
- Measurement stability of the minute capacity largely improvably 2pF/5V and 20pF/5V range addition.
- It is poor contact detection of the probe at the time of 2 terminal (4 terminals) measurement by measurement abnormality detection.
- 4 terminals contact check: After measurement/ OFF is selectable
- Measurement frequency: 1kHz/120Hz \pm 0.1%(a sine wave)
- Change possibility of series equivalent circuit/parallel equivalent circuit.
- Available to measure by constant voltage for the capacitor with the voltage dependence. (It is not supported some range)
- Available Tan δ measurement (It is not supported 2 pF range)
- 3 $\frac{1}{2}$ figures(1999) display and available HI/GO/LO judgment by comparator
- "RS-232C" and "printer output" function (Centronics conformity) are as normal. ("GP-IB" is option)
- Supplies a measurement electric current by intermittent in order to reduce the abrasion of the probe contact. 【120 μ F / 1.2mF range】



AEMIC CORPORATION,

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SPECIFICATIONS

Measuring range and Accuracy (D<0.1 Ambient temperature 23°C±5°C)

Range	Measuring range	Resolution	Accuracy	Measurement voltage	
2pF	0.000pF~1.999pF	0.001pF	Within $\pm 1.0\%$ of rdg ± 5 digit $\times \alpha$	1kHz、1V $\pm 5\%$ [rms]	1kHz、5V $\pm 5\%$ [rms]
20pF	0.00pF~19.99pF	0.01pF	Within $\pm 0.25\%$ of rdg ± 3 digit $\times \alpha$		— — —
200pF	0.0pF~199.9pF	0.1pF	Within $\pm 0.2\%$ of rdg ± 2 digit $\times \alpha$		— — —
2nF	0.000nF~1.999nF	0.001nF	Within $\pm 0.2\%$ of rdg ± 2 digit		— — —
20nF	0.00nF~19.99nF	0.01nF			— — —
200nF	0.0nF~199.9nF	0.1nF			— — —
2μF	0.000μF~1.999μF	0.001μF			120Hz、0.5V $\pm 5\%$ [rms]
20μF	0.00μF~19.99μF	0.01μF	Within $\pm 0.3\%$ of rdg ± 3 digit $\times \alpha$	1kHz、1V $\pm 5\%$ ~15%[rms]	— — —
120μF	0.0μF~119.9μF	0.1μF	Within $\pm 1.0\%$ of rdg ± 5 digit $\times \alpha$		120Hz、0.5V $\pm 5\%$ [rms]
200μF	0.0μF~199.9μF	0.1μF	Within $\pm 0.5\%$ of rdg ± 3 digit $\times \alpha$		
1.2mF	0.000mF~1.199mF	0.001mF	Within $\pm 1.5\%$ of rdg ± 5 digit $\times \alpha$	— — —	120Hz、0.5V $\pm 5\%$ ~25%[rms]

※In case of 0.1<D<1, 25D/100(%) is added on the above accuracy.

α : In case of FAST 2(In case of 2pF Range/1 V α=10) In case of SLOW 1(In case of 2pF Range/1 V α=5)

Measurement Method	3/5 terminal measurement [Available to select the measuring method on each range]
Measuring Frequency	120Hz/1kHz±0.1%、sine wave
Output Impedance	Approx. 1Ω
Straycapacity revision range	Approx. 30pF
temperature coefficient	Within ±100ppm/°C[f.s and zero]
Measurement time	【Free running】FAST: Approx.1~5 time/sec. SLOW:FAST×N(N: The setting number of “average”) 【Start trigger signal [FAST]]1msec.[Fastest time]
Comparator set range	Capacitance : 1999[120μF/1.2mF range: 1199] with HI and LO limit tan δ : 99.9%
Use environment	Temperature:0°C~+50°C、 Humidity: Less than 85%
Power supply	AC85V~265V、50~60Hz、Approx. 50VA
Outer dimension	333(W)×99(H)×300(D)mm
Weight	Approx. 4kg

※ We will change the specifications of the catalogue without notice by improvement.

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