

Model AE-127B High Speed High Accuracy 100kHz ESR/Z Checker

**Most Suitable Model to inspect and measure ESR/Z
of Low Impedance-Capacitor.**

- Measurement of low-equivalent series resistance and low impedance on 100kHz at high-stability, high-accuracy and high-speed.
- Low-ESR/Low-impedance measuring range : 100mΩ~100Ω range.
- Min. Resolution : 10 μΩ(ESR)
- Available to make the Contact-Check to watch the contact condition of Probe contact.
- Measuring Value Display Range : 0000~10999
- Built-in Digital Comparator.
- Option: GP-IB /RS-232C/ Centronics Interface.



AEMIC CORPORATION,

model **AE-127B High Speed, High Accuracy 100kHz ESR/Z Checker**

SPECIFICATIONS

Measuring range and Accuracy (at 23°C ± 5°C) :

Range	Measuring range	Resolution	Test current	ESR Accuracy	Z Accuracy
100mΩ	0.00mΩ ~ 109.99mΩ	0.01mΩ	100mA	within ±0.5% of rdg±10digits±100μΩ	within ±1% of rdg±10digits±100μΩ
1Ω	0.0mΩ ~ 1099.9mΩ	0.1mΩ	10mA	within ±0.5% of rdg±10digits	within ±1% of rdg±10digits
10Ω	0.000Ω ~ 10.999Ω	1mΩ	1mA		
100Ω	0.00Ω ~ 109.99Ω	10mΩ	0.1mA		

Test frequency :	100kHz ± 0.1%, Sine wave
Measuring method :	5-terminal measurement with contact check.
Measuring time :	Free running mode】 Fast: about 10times/sec. Slow: about 2.5times/sec. 【Remote start mode】 ESR: about(1.7+n)×2msec.[n=FAST:1~99 / SLOW: 4+power line cycle×1~9]×2msec.+0.5msec. (please plus 1msec., in case of making the Contact-check) Z: about(1.5+n)×3msec.[n=FAST:1~99 / SLOW: 3.5+power line cycle×1~9] ×3msec.+0.5msec. (please plus 1msec., in case of making the Contact-check)
Comparator setting range :	0000~9999[both for the upper and lower limit]
Indication comparator's comparison result :	LO/GO/HI, LED display and buzzer.
Control signal :	input: START "L"[0V]→"H"[DC12V]⇒start HOLD open or "H"[DC12V]⇒free run / "L"[0V]⇒hold output LO/GO/HI, CONT-E and EOC/ open collector[40V/100mA max.]
Operation condition :	【Temp.】 5°C~+50°C、【Humidity】 below 85%
Outer dimension :	333(W)×99(H)×300(D)mm 【excluding protruding parts such as rubber legs, etc.】
Weight :	about 4kg
Power supply :	AC85V~265V、50~60Hz、about 30VA
Option :	RS-232C Interface
[Only one kind of interface can be provided with the checker]	GP-IB Interface
	Printer output[8 bit parallel Centronics]

O p t i o n	● RS-232C	Only one kind of interface can be provided with the checker.
	● GP-IB	
	● Printer output[Centronics]	
	● Printer Cable	
	● 100kHz Short termination (Zero ohm standard resistor)	

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