

Atlas ESR

equivalent series resistance meter

Model: ESR60

Enhanced

PEAK

electronic design ltd

PRODUCT BRIEF

Simplicity

Measuring a capacitor's ESR (equivalent series resistance) is a great indicator of capacitor condition.

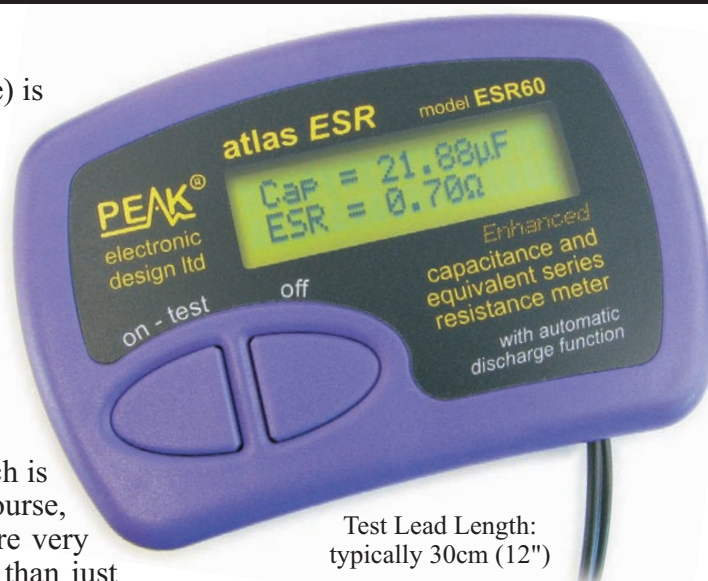
The *Atlas ESR* offers instant results, just connect the probes and press test.

You can even use the *Atlas ESR* in-circuit, saving you the trouble of removing capacitors.

When testing capacitors out-of-circuit, the unit will also display the capacitance.

All You Need

Traditionally, ESR can be a tricky thing to measure, which is a shame, it's a very useful diagnostic parameter. Of course, ESR meters are available from various sources, some are very famous in the repair sector, but the *Atlas ESR* is more than just another ESR meter. For a start, it's smart, both in looks and in brain. It can measure and compensate for the effects of measuring in-circuit, it also knows that you don't want to be hassled with capacitor polarity.

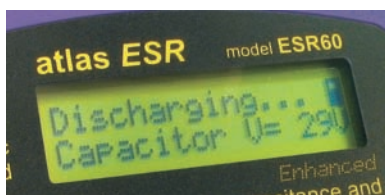


Test Lead Length:
typically 30cm (12")

Real World Testing

It's designed with the real world in mind. Some capacitors can be charged up, but the *Atlas ESR* doesn't mind. If your capacitor is charged, the unit will automatically carry out a controlled discharge procedure before measuring the capacitance and ESR.

The intelligent software also eliminates the effects of probe and cable resistance.



Specifications (at 25°C unless otherwise quoted)

Parameter	Min	Typ	Max	Note
Peak test current into S/C		±20mA	±25mA	
Peak test voltage across O/C		±2.5V	±3.0V	
Capacitance measurement range	1µF		22,000µF	
Capacitance accuracy		±4% ±0.2µF		
ESR measurement range	0Ω		20Ω	2
ESR resolution for ESR < 2Ω	0.01Ω		0.02Ω	
ESR resolution for ESR > 2Ω	0.1Ω		0.2Ω	
ESR accuracy for ESR < 2Ω		±1.5% ±0.02Ω		
ESR accuracy for ESR > 2Ω		±1.5% ±0.2Ω		
Abuse voltage (for C < 10µF)			±275V	3
Abuse voltage (for C > 10µF)			±50V	3
Auto-Discharge voltage limit			±50V	
Battery type	MN21/GP23A 12V Alkaline			2
Battery voltage range	8.5V	12V		
Battery voltage warning threshold		8.5V		
Inactivity power-down period		30 seconds		
Dimensions (excluding test leads)		103 x 70 x 20 mm		
Operating temperature range	10°C		40°C	1

Notes:

1. Subject to acceptable LCD visibility.
 2. Subject to revision.
 3. Maximum abuse voltage rated limitation of internal protection electronics.
- Probes, leads and unit are not certified for high voltage use.

Please note that specifications of our products are subject to change without notice. E&OE.

Feature Summary

- Measure capacitance and ESR.
- Resolution down to 0.01 ohms.
- Analyses at industry standard of 100kHz.
- Capable of In-Circuit testing.
- Polarity free, connect any way round.
- Protected against highly charged capacitors.

Gold plated crocodile
probes



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