

**ESR60 Reseller Resources**

**Title** Atlas ESR - Capacitance and Equivalent Series Resistance Meter (Model ESR60)

**Catalogue copy** The Atlas ESR measures both the capacitance and Equivalent Series Resistance (ESR) of a capacitor. The ESR is a great indicator of the capacitor's condition, as a capacitor fails, it's ESR rises. This advanced meter can measure ESR even in-circuit. It will measure capacitance too if the capacitor under test is out of circuit. A unique feature of the Atlas ESR is the ability to detect if the capacitor is charged, if the capacitor is charged then the Atlas ESR will gracefully discharge the capacitor using a constant power algorithm designed to prevent nasty discharge currents. The Atlas ESR will automatically detect when the test clips are applied to a capacitor and start it's analysis, great when testing many capacitors. Capacitance measurement range from 1uF to 22,000uF, ESR measurement range from 0.01 Ohms to 20.0 Ohms. Minimum ESR resolution is 0.01 Ohms. Can also be used for short circuit tracing. ESR test frequency is industry standard at 100kHz. Supplied with removable gold plated croc clips. Compatible with standard 2mm connectors. Complete with battery, test leads, gold plated crocs and user guide with capacitor ESR reference chart.

**Key Features:**

- Automatic capacitor discharge function.
- Measure both capacitance and ESR (equivalent series resistance).
- Can be used for measuring low resistances such as short tracing.
- Capacitance range from 1uF to 22,000uF.
- ESR range from 0.01Ω to 20.0Ω.
- Gold plated 2mm plugs and sockets.
- Gold plated removable croc clips.

**Specification Summary**

Parameter	Min	Typ	Max	Note
Peak test current into S/C		±20mA	±22mA	
Peak test voltage, full scale ESR		±40mV	±44mV	
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 / 40Ω	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			
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. Model ESR70 is capable of measuring up to 40Ω.

3. Maximum abuse voltage rated limitation of internal protection electronics. Probes, leads and unit are not certified for high voltage use.

**Photography****Other Downloads**

[esr60\\_userguide\\_en.pdf](#)

[esr60\\_datasheet\\_en.pdf](#)

**Dimensions per product (excluding leads)**

103 x 70 x 20 mm

**Dimensions per product (packaged)**

200 x 138 x 30 mm

**Weight per product (nett)**

0.098kg

**Weight per product (packaged inc docs)**

0.154kg

**Bulk order multiple**

20, 80

**Harmonisation / Commodity Code**

9030 8999 GB

**Fundamental Materials**

Plastic, glass and metal.

**Country of manufacture**

England (UK)

**Certification**

CE, WEEE, ROHS

**Keywords**

peakelec, peak electronic design, peak electronics, peak electronic, Peak Atlas, Atlas, Atlas ESR, ESR60, ESR 60, ESR meter, capacitor meter, capacitor tester, ESR tester, capacitance meter,

	capacitance tester, equivalent series resistance, short circuit tester, low resistance meter, capacitor analyser, capacitor analyzer, capacitance analyser, capacitance analyzer, ESR analyser, ESR analyzer,
<b>Suitable Accessories</b>	<a href="#">ATC55</a> , <a href="#">ATC01</a> , <a href="#">GP23A</a> , <a href="#">ESRLHP2</a> , <a href="#">CRC01EM</a>

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