

All values are at 20°C unless otherwise specified.

Parameter	Min	Typ	Max	Note
Peak test current into S/C		±20mA	±23mA	
Peak test voltage, full scale ESR		±40mV	±46mV	
Peak test voltage across O/C			±5.5V	
Capacitance measurement range	0.3µF		90,000µF	1
Capacitance accuracy	±4% ±0.2µF			2
Capacitance test current	1.7mA	2.0mA	2.3mA	3
	17mA	20mA	23mA	4
Capacitance measurement ΔV		±500mV		5
ESR measurement range	0Ω		40Ω	
ESR resolution for ESR < 2Ω	0.01Ω		0.02Ω	
ESR resolution for ESR > 2Ω	0.1Ω		0.2Ω	
ESR accuracy for ESR < 2Ω	±2% ±0.02Ω			
ESR accuracy for ESR > 2Ω	±2% ±0.2Ω			
ESR test current	±0.8mA		±23mA	
ESR test frequency	48kHz	50kHz	104kHz	5
Abuse voltage (for C < 10µF)			±275V	6
Abuse voltage (for C > 10µF)			±50V	6
Auto-Discharge voltage limit			±50V	6
Auto-Discharge RMS power		1.5W		
Battery type	AAA Alkaline, NiMh or Lithium-Iron-Disulphide			
Battery life	Typically ~1500 operations			7
Inactivity power-down period	60 seconds			
Dimensions (excluding leads)	103 x 70 x 20 mm			
Operating temperature range	15°C		35°C	8

Notes

1. The UK convention of the decimal point “.” is used in most of our products. This must not be confused with the comma thousands separator “,”.
2. Capacitance accuracy quoted for capacitance between 10µF and 10,000µF.
3. Capacitance test current of 2mA if C < ~125µF or ESR > ~10Ω.
4. Capacitance test current of 20mA if C > ~125µF and ESR < ~10Ω.
5. Subject to revision.
6. Maximum abuse voltage rated limitation of internal protection electronics. Probes, leads and unit are not certified for high voltage use.
7. Based on <1 minute per operation.
8. Also subject to acceptable LCD visibility.