

INSULATION RESISTANCE TESTER

The Insulation Resistance Tester (IR Tester) is a system designed to automate high voltage DC conditioning and quality control measurements for capacitors in accordance with the appropriate MIL Standards.

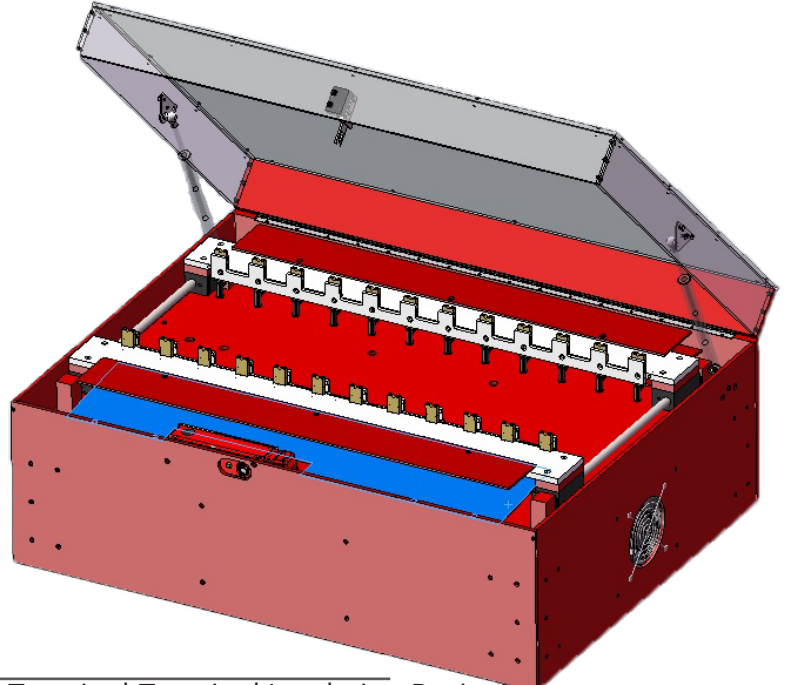
The IR Tester is equipped with a series of test channels which form a contact with the parts under test. Each channel is designed to accommodate a wide range of part geometries and is connected to a high voltage reed relay controlled by a PLC which allows a series of operations to be performed automatically in rapid succession.

The IR Tester is supervised by a PC which extracts machine configuration data and pass/fail criteria from your Test4Action database to allow automatic machine configuration for a specific part's test requirements. Test results are fed back to your Test4Action database in real time for future archival and data analysis purposes.



KEY SPECIFICATIONS

Part & System Information					
Manuf. Order #	Part Num.	Operation Code	Total Channels	Tested By	
J4156-ENG	K219-71-SAMP	IR01A	12	H. Smith	
Test Criteria					
Precharge Voltage	Precharge Time	Flash Voltage	Flash Time	Ramp Up Rate	IR Limit
1000 V	60 s	750 V	15 s	50 V/s	0.05 μ A
Machine Status: Measurement Sweep					
Batch	Channel	IR Reading	Tested		
1	1	0.032 μ A	12		
	2	0.027 μ A			
	3	0.016 μ A			
	4	0.006 μ A			
	5	0.048 μ A			
	6	0.025 μ A			
	7	0.007 μ A			
	8	0.001 μ A			
	9	0.049 μ A			
	10	0.054 μ A			
	11	0.026 μ A			
	12	0.002 μ A			



Parameters	Terminal-Terminal Insulation Resistance Terminal-Case Insulation Resistance Terminal-Terminal Leakage Current Terminal-Case Leakage Current
Conditioning	Terminal-Terminal DC Flash Terminal-Case DC Flash
Capacity	900 Parts / Hour
Interface	GPIB (IEEE 488)
Test Channels	12 *12 Way Model 49 *50 Way Model
Supply Voltage	110 V *Adjustable to 220/240V
Control Voltage	24 V
Charge Voltage Range	0 V - 1000 V
Charge Voltage Resolution	0.1 V
Charge Current	0 mA - 600 mA
Leakage Current Measurement Range	20 pA - 20 μ A
Leakage Current Measurement Resolution	1 fA
Charge/Discharge Time	0 s - 6000 s
Safety Features	Automatic Lid Lock Hard wire interlock Manual Push Button Release Plastic & Teflon Shield
Testing Specifications	MIL-STD-202

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