Impulse Winding Tester 7750

Features

Safety Tester

- Lowest Inductance $\geq 0.2 \mu H$
- Voltage Compensation Function
- 200MHz/ 9bits High Impulse Test Sampling Rate _
- Programmable Impulse voltage
- Built-in storage 128 sets testing waveform _
- Total Area Comparison _
- Differential Area Comparison
- LAPLACIAN Comparison
- CORONA Comparison
- Support USB Host/Device, RS-232, SIGNAL I/O

Applications

Low inductance coil, High power inductance, Relay, Transformer, Motor stator, Motor rotor, Winding component



Œ RS-232 SIGNAL I/O USB Host/ Device

Accessories / Fixtures

Standard

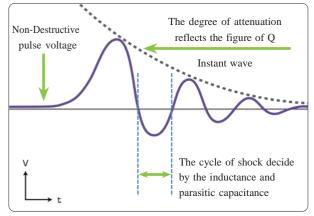
- SIGNAL I/O

- Power Cord
- 2 terminal HV test cable
- **Optiona**l - RS-232 cable
- Remote control cable

Sampling Rate	200MHz/9 bit		
Test Time	7 time/ Sec		
Input Impedance	20ΜΩ		
	Area Comparison		
	Area Differential Comparison		
Waveform Comparison	CORONA Comparison		
	LAPLACIAN Comparison		
Measurement Statistics	•		
Breakdown Voltage	•		
General			
SIGNAL I/O Control	START/ STOP		
SIGNAL I/O Output	PASS/ FAIL/ TEST/ READ/ HV ON		
Safety Switch	When testing, you need to short-circuit the INTER LOCK on the rear of the instrument to output the testvoltage		
Built-in Storage	128		
Interface	RS-232, Remote, USB Host/ Device (GPIB, LAN-Option)		
Power Supply	Voltage: 100Vac-240Vac		
	Frequency: 47-63Hz		
Power consumption	45W		
Display	7"TFT (800*480)		

Key feature

Technology of Detect Layer Short



"Pulse voltage and waveform comparison" is the way we detect layer short

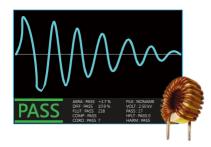
430x132x370 mm(W*H*D)

Temperature: 0°C-40°C, Humidity: 20-80%RH

The pulse voltage is non-destructive/instant voltage that apply on both side of winding and detect the DUT without damage it.

By compare the wave with the golden sample, we can judge the DUT.

7Kg



Specifications

Environment

Weight

Dimension(W*H*D)

Model

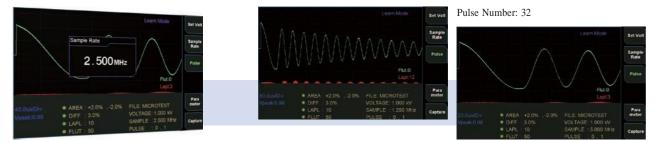
Impulse Voltage	10V-1200V	100V-5200V	200V-12000V	
Voltage Resolution	0.1V	1V	5V	
Test Inductance Range	≥0.2µH	≥10µH	≥20µН	
Impulse VoltageAccuracy	\pm (1% of setting + 5V)	\pm (1% of setting + 10V)	± (1% of setting +20V)	
Pulse Number	Max 32			
Sampling Rate	200MHz/9 bit			
Test Time	7 time/ Sec			
Input Impedance	20ΜΩ			
Waveform Comparison	Area Comparison			
	Area Differential Comparison CORONA Comparison			
	LAPLACIAN Comparison			
Measurement Statistics	•			
Breakdown Voltage	•			
General				
SIGNAL I/O Control	START/ STOP			
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Safety Switch	When testing, you need to short-circuit the INTER LOCK on the rear of the instrument to output the testvoltage			
Built-in Storage	128			
Interface	RS-232, Remote, USB Host/ Device (GPIB, LAN-Option)			

7750-1

7750-5

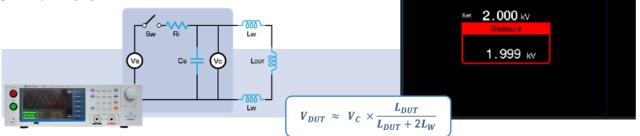
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200MHz/9bit High Impulse Test Sampling Rate



Voltage Compensation Function

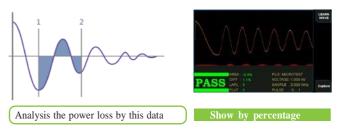
7750 features the Voltage Compensation Function. In order to reduce the possibility of misjudgment.



C Provides 4 waveform comparison

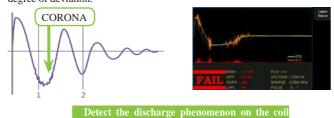
1 AREA Comparison

When layer short happened, the loss of power on coil increase, the resonance damping coefficient increase, resonance amplitude decrease, the total area decrease. These are the basic parameterswe check layer short.



3 CORONA Comparison

In pulse test, the insulation defect will cause discharge and create corona. This function is able to count the times that corona happenedbase on the degree of deviation.



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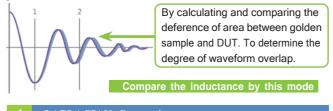
2 DIFF Comparison

Support checking output voltage

HV Function Test

Add up the difference between normal wave and DUT wave call "Area differential" When layer short happened, the inductance reduce(similar the transformer).

The wave phase change and the area differential also change. This will show "fail" on the instrument. However, the parameter might cause deviation because of the deviation of inductance, resonance phase shift.(Silicon steel product such as motor and traditional transformer is not suitable)



LAPLACIAN Comparison

Use the second derivative to calculate the Laplacian value.

By the corona waveform of high-frequency to know more about the insulating property of products.

