

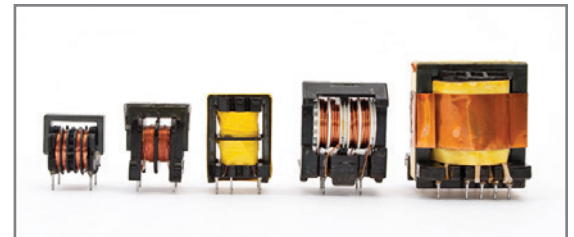
The Chroma 19305 series Impulse Winding Tester includes a single channel (19305) and a 10 channel output model (19305-10). Both models feature a 6kV impulse voltage and a 200MHz high-speed sampling rate which improves the sensitivity of discharge detection. To test more than 10uH, the tester is equipped with built-in functions such as Area Size Comparison, Differential Area Comparison, FLUTTER value, and LAPLACIAN value, which enable inspection of the coils for poor coil insulation.

The testing of winding components includes electrical characteristics and safety withstand voltage tests. Poor insulation of coils is a common cause of layer short and output pin short-circuits during usage. This can result from bad initial design, poor processes, or deterioration of insulating materials. Therefore, including the coil layer short test in winding components is necessary.

The impulse winding test applies a non-destructive, high-speed, and low-energy voltage impulse to the device under test to analyze and compare the equivalent waveform of good and defective products for analysis. The main purpose of the impulse winding test is to identify potential defects such as layer short, corona, or partial discharge that are difficult to detect in wound components during early phases of production.

The Chroma 19305 series is specifically designed to test winding components using a high-voltage charged micro capacitor and the coil under test, forming an RLC parallel resonant circuit. By analyzing the oscillation decayed waveform through a high-speed and sophisticated sampling process technique, the tester can successfully detect coils with poor insulation. The analyzer can perform impulse tests on wound components such as motors and transformers. Implementing this test ensures not only reliable quality but also efficient product control in quality verification for wound components.

The Chroma 19305-10 provides a maximum of 10 channels output for multichannel scanning tests, which helps save time and labor costs for manufacturers.



Applications

- Transformer, Motor, Generator, Ignition Coil, Relay, Solenoid Valve, Inductance and other coils.

Key Features

- High impulse test sampling rate (200MHz), 10bits
- 6kV impulse test
- Breakdown Voltage Analysis (BDV)
- High speed test
- 10 channels scan test (19305-10)
- Support max. 40 channels scanning test
- USB port for storing waveform & screen capture
- Graphical color display
- Standard LAN, USB and RS232 interfaces



Specifications

Model	19305	19305-10
Channel	1 ch	10 ch
Applied Voltage, Step, and Energy	100V ~ 6000V 10V Step	
Inductance Test Range	More than 10uH	
Sampling Speed	10bit / 5ns (200MHz)	
Sampling Range	11 Range : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	
Pulse Number	Pulse Number: 1~32 Dummy Pulse Number: 0~9	
Detection Mode	Area / Differential Area; Flutter Value / Laplacian Value	
Electrical Hazard Protection		
Key Lock	Yes (password control)	
Interlock	Yes	
Indication, Alarm	GO: Short sound, Green LED; NG: Long sound, Red LED	
Interface	RS232 ,USB , LAN interface	
General		
Operation Environment	Temperature : 0°C ~ 45°C Humidity: 15% to 95% R.H@≤ 40°C	
Power Consumption	No Load: <150W Rated Load: <1000W	
Power Requirements	100~240Vac, 50 / 60Hz	
Dimension (H xW xD)	177 x 428 x 500 / 16.85 x 6.97 x 19.69 (in)	
Weight	26kg / 57.32 lbs	

Ordering Information

19305: Impulse Winding Tester

19305-10: Impulse Winding Tester (10ch)

A190359: 16ch HV External Scanning Box



A190359: 16ch HV External Scanning Box