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- High impulse test sampling rate (200MHz), 10bits
- 6kV impulse voltage test
- Breakdown voltage analysis function
- High speed test
- 10 channels output (19305-10)
- Support max. 40channels scanning test
- Traditional Chinese/Simplified Chinese/English user interface
- USB port for storing waveform & screen capture
- Graphical color display
- Standard LAN, USB and RS232 interfaces

The Chroma 19305 series Impulse Winding Tester included with one channel (19305) and 10 channels output (19305-10), the 19305 series has 6kV impulse voltage and 200MHz high speed sampling rate to improve sensitivity of discharge detection. To test more than 10uH, the built-in Area Size Comparison, Differential Area Comparison, FLUTTER value and LAPLACIAN value functions are able to inspect the coils for poor coil insulation.

The inspection of winding components includes electrical characteristics and safety withstand voltage tests. Commonly poor insulation of coils is the root for causing layer short and output pin short-circuited during usage. The reason could result from bad initial design, poor process or deterioration of insulating materials; therefore, adding the coil layer short test to winding components has its necessity.

The impulse winding test is to impose a non-destructive, high speed and low energy voltage impulse on the DUT (Device Under Test) to analyze/compare the equivalent waveform



Model 19305-10



of yield and defect products for good and no good judgment. The main function of impulse winding test is to discover the potential defects such as layer short, corona or partial discharge that is difficult to find in wound components in early phase.

The Chroma 19305 series is an equipment specifically designed for testing winding components utilizing a high voltage charged micro capacitor (low test energy) and coil under test to form an RLC parallel resonant. Analyzing the oscillation decayed waveform via a high speed and sophisticated sampling process technique can successfully detect the coils with poor insulation. Analyzer can perform impulse tests on wound components like motors, transformers wound products. Not only reliable quality but also efficient product control would be obtained when implementing it to quality verification by wound component test.

The Chroma 19305-10 can providing maximum 10 channels output for multichannel scanning tests to save time and labor costs in the manufacturers.

Four kinds of waveform judgement for testing

- Area Size
- Differential Area
- Flutter Value
- Laplacian Value

Product Application

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

ORDERING INFORMATION

- 19305** : Impulse Winding Tester
- 19305-10** : Impulse Winding Tester (10ch)
- A190359** : 16ch HV External Scanning Box



A190359 : 16ch HV External Scanning Box

SPECIFICATIONS		
Model	19305	19305-10
Channel	1ch	10ch
Applied Voltage, Step, and Energy	500V ~ 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 x W x D)	177 x 428 x 500 / 16.85 x 6.97 x 19.69 inch	
Weight	26kg / 57.32 lbs	

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 General Purpose Test Solution
 Thermoelectric Test & Control Solution
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