DC Bias Current Test System

6210/6220/6240 + 6632 6223/6225/6243 + 6632

Features

- Current and frequency graphic scanning analysis
- Temperature-rising scan function can solve the problems of overheating a DUT to burn
- DCR Measurement function
- Long-term consecutive maximum power output
- Interchangeable bi-direction current function
- Frequency response
 100Hz-10MHz (With DC Bias Current 6223/6243),
 100Hz-30MHz (With DC Bias Current 6225)
- DC Bias Current Max.320A (6243)
- Direct Handler interfaces control through LCR power meter





CE RS-232 ☑ Handler ☑

Accessories / Fixtures

Standard

Darrow Cond

- Power Cord

ord – PC Link software

Optional

Ethernet cableBlack/Red thermoplastic

F6220 (SMD)6210/6220/6240connect plate (short/long)

sleeve (6210)
- F6210 (DIP)

BNC+BNC cableF6220/F6240 (SMD)

Applications

Components: High current power inductor, common mode choke, mini molding choke, high power components of EV charging connector

Electric Vehicles: Electric supercharger system

Specifications

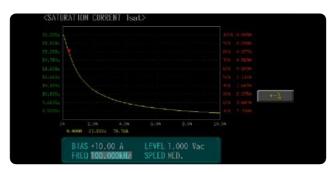
DC Bias Model Name	6210	6223/6220	6225	6243/6240	
Output Current	10A	20A	20A	40A	
Accuracy	0.000A-1.000A 1%+5mA				
	1.001A-5.000A 2%				
	5.001A-20.000A 3%				
Power Consumption	6225/6223/6220/6210 (320W Max.)				
•	6243/6240 (640W Max.)				
LCR Meter / Impedance Analyzer	6632				
Frequency (Hz)	10Hz-1/ 3/ 5/ 10/ 20/ 30M/ 50MHz				
AC Drive Level	10mV-2Vrms				
DC Drive Level	1V (Fixed)				
Output Impedance	25Ω , 100Ω (switchable)				
Measurement Parameters and Ranges	R, X	$\pm 0.000 \text{m}\Omega$	-9999.99MΩ		
	Y	0.00000μS	-999.999kS		
	G, B	$\pm 0.00000 \mu$	±0.00000μS-999.999kS		
	θRAD	±0.00000-3	±0.00000-3.14159		
	θDEG	±0.000°-180.000°			
	Cs, Cp	±0.00000pF-9999.99F			
	Ls, Lp	, Lp ±0.00nH-9999.99kH			
	D	0.00000-99	0.00000-9999.99		
	Q	0.00-9999.99			
	Δ	±0.00%-99	±0.00%-9999.99%		
	Rdc	0.00mΩ-99	0.00mΩ-99.9999MΩ		
	er' er"	0-100000	0-100000		
	μr' μr" 0-100000				
Output Current (Max.)/ Frequency Response	60A Max./ 3MHz (6210+6632) 120A Max./ 3MHz (6220+6632) 120A Max./ 10MHz (6223+6632) 20A Max./ 30MHz (6225+6632) 320A Max./ 3MHz (6240+6632) 320A Max./ 10MHz (6243+6632)				
Constant Power Output	•				
Current Switch	•				
DC Resistance	•				
Current Graphic Scanning Analysis	•				
Frequency Graphic Scanning Analysis	•				
Temperature Rise	•				

General

Power Supply	Voltage 88-264Vac		
	Frequency 47-63Hz		
Interface	RS-232, Handler		
Trigger Test	Auto, Manual, RS-232, GPIB, Handler		
Environment	Temperature: 10-40°C, Humidity: 20-90%RH		
Dimension (W*H*D)	356×147×497mm (6225) 337×145×525mm (6223/6220/6210) 435×145×525mm (6240) 435×145×644mm (6243)		
Weight	15Kg (6225/6223/6220/6210), 20Kg (6243/6240)		

Key Features

A Accurately Test Magnetics Carrying DC Bias Current



Isat (Magnetic saturation current curve)



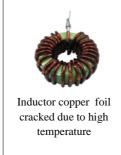
The value of the inductance is 2.06983uH.



Using a DC Bias current source to apply a 10A bias current to the inductor, the inductance decreased from 2.06983uH to 1.02845uH.



Irms (Rated current curve)



Magnetic saturation current is called I sat, and the temperature rise current is called I rms. When the transformer and the inductor pass a large current in the actual circuit operation, the magnetic field of the magnetic core will produce magnetic saturation, which will cause the inductance characteristic to decline. Therefore, the R&D engineer will set the current value of the inductance reduction allowable range.

B DC Bias Fixtures



Standard fixture F6210 for measuring inductance, optional fixture F6220 for measuring SMD inductance.

C Rack-mounted System



Reserve space for expanding current, support computer connection software, and save measurement data.

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