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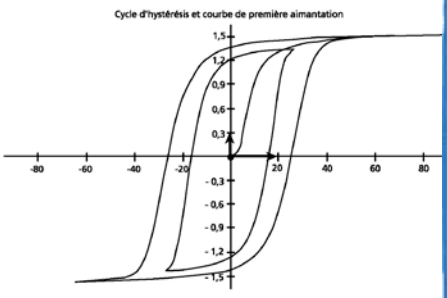
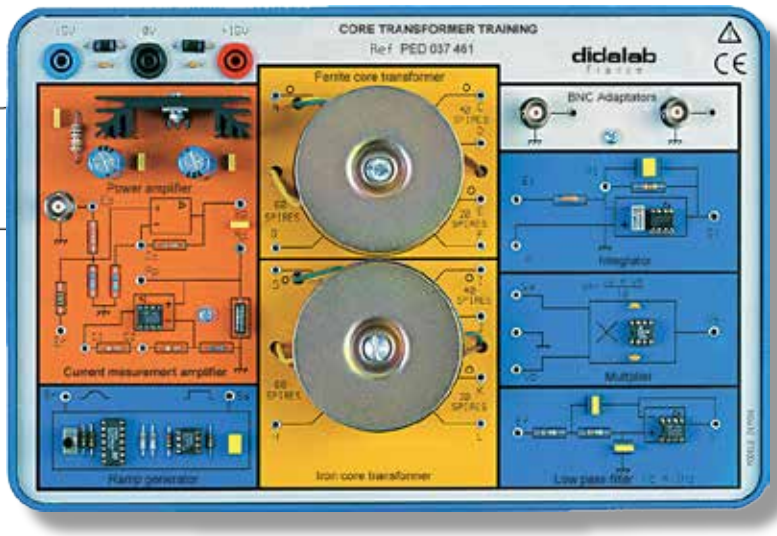
Analog Electronics





PED 037 461

Study of core transformer

The model PED 037 461 is an autonomous unit composed of two core transformers: iron and ferrite. It allows :

• Plotting of hysteresis cycles with variable frequency 0,2 Hz to 500 Hz, with a built-in power amplifier, to the the first magnetization curve, to the ramp block.

• A built-in multiplier allows display of power set in primary or secondary.

• A low-ass filter associated to multiplier allows to get a mean power.

Functions integrated in the model :

- Power amplifier
- Current measure amplifier
- Ramp generator
- Iron/Ferrite transformer, 3 BNC adaptors / ø 2 mm plugs, Integrator, Multiplier, Low-pass filter

The unit is equipped of ø 4 mm safety terminals for all external connections and ø 2 mm terminals for inner connections.

A teaching manual is included with equipment, topics :

- Presentation of the equipment,
- Magnetization of a magnetic circuit :
  - Hysteresis cycle of a iron and a ferrite transformer,
  - Initial magnetization curve on iron and ferrite transformer,
- Study of a toroidal transformer phase :
  - No load operation,
  - Operation shorted.

The PED3746B Pack « STUDY of CORE TRANSFORMER » includes :		
Reference	Designation	Quantity
PED 037 461	Core transformer module with an instruction manual	1
ERD 037 782	Bag of security stackable patching cords (several lengths and colours) 20 of 2 mm and 5 of 4 mm	1
PMM 062 200	Common setting supply : +10 to +15 Vdc 4 A and -10 to -15 Vdc 2 A	1
	OPTIONS (not included)	
PEM 010 021	BNC insulated plug. Length : 1 m (3 recommanded)	
PMM 022 400	Low frequency generator 0.2 Hz 2 MHz with frequency digital measure	
PMM 063 805	Digital Oscilloscope : 2x60 MHz	

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