AC STANDARDS AND MEASUREMENT INSTRUMENTS

- Bench or panel-mounting
- Dial arrangement minimizes reading errors
- Exceptionally low output impedance

Dekatran Decade Ratio Transformer

The Dekatran decade ratio transformers are inductive voltage dividers for use at audio frequencies. They feature high input impedance, low output impedance, and low phase shift and are ideal for use as working standards in test setups and calibration laboratories. Applications include voltage and current division, turns-ratio measurement, divider calibration and impedance comparison.

Initial accuracy and long-term stability over a wide range of ambient conditions are assured by the use of gapless toroidal cores of very high permeability. Their inherently stable characteristics assure permanent calibration over wide ranges of temperature, humidity, vibration and shock. A sturdy metal case provides both mechanical protection and electrical shielding.

The Model DT1145 is for panel mounting and has three decades plus an interpolation potentiometer. It features stacked dials, which results in a configuration that requires less than seven square inches of panel space.





Model DT1145

DEKATRON DECADE RATIO TRANSFORMERS

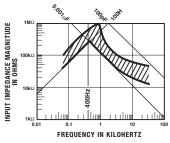
Specifications

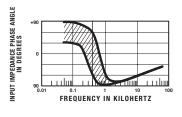
50 Hz to 5 kHz	
	ppm (referenced to input)
-	bly by $(1 + 0.1f^2 \text{ in kHz})$
O	ns producing the same nominal output voltage remain with the stated
, .	
Continuous, 0.001 %	per dial division
1.11100	
Approximately 0.05	mrad/kHz for settings above 0.1
0.35 VRMS/Hz, 350 V maximum	
10 μΑ	
High, with no output	load. Typical range of measured values for various dial settings
and voltages shown	in curves.
Approximately 100	to 300 H depending on excitation
1 A maximum	
Approximately 2.5 (2 maximum in series with 100 μH
Harmonic Distortion (0.0008 x fkHz)% of output voltage peak to peak for input voltage less t	
f _{Hz} 011) VRMS	
Diameter	8.5 cm (3.35 in)
Depth	8.5 cm (7.2 in)
Depth (behind pane	l) 13.7 cm (5.4 in)
1.1 kg (2.5 lb)	
	50 Hz to 1 kHz: ±10 Above 1 kHz: multip *All setting combination linearity specifications. Three, plus interpol Continuous, 0.001 % 1.11100 Approximately 0.050 0.35 VRMS/Hz, 350 10 μA High, with no output and voltages shown Approximately 100 1 A maximum Approximately 2.5 Ω (0.0008 x fkHz)% of fHz011) VRMS Diameter Depth Depth (behind pane)

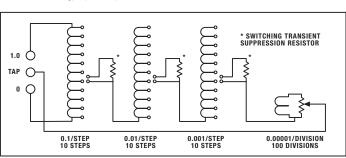
Included Accessories
Instruction Sheet
Z540 Compliant Calibration
with Certificate and Data for DT1145

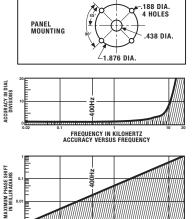
P/N 8896

DT1145 P/N OPT-Z540









FREQUENCY IN KILOHERTZ
PHASE SHIFT VERSUS FREQUENCY



