

DC MILLIVOLT REFERENCE SOURCE E100 RC

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PARAMETER	RANGE1	RANGE2
OUTPUT	±10 V dc+ 10% over ranging	±100mV dc+ 10% over ranging
RESOLUTION	100μV(10 ppm) 5decades	1μV(10 ppm) 5decades
ACCURACY	±0.005% of setting+50μV	±0.01% of setting+5μV
RIPPLE AND NOISE, rms(BAND PASS 0.8 HZ TO 100KHZ)	100μV rms	1μV rms
CURRENT	75mA with short circuit protection	Not applicable. (output voltage is within stated accuracy if load impedance is greater than 1MΩ)
IMPEDANCE	50 milliohms	20 ohms(constant)

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WARM UP TIME	30 Seconds(min); 15 minutes(max)
Temperatures Calibration: Ambient: Operating limit: Storage:	23°C ±1V°C 20°C to 30°C -10°C to 50°C -40°C to 85°C
Temperature coefficient Ambient: Operating limit:	±0.0005%/°C ±0.001%/°C
Power requirements:	10W, 50-400Hz 105Vac to 125Vac 220Vac to 240Vac
Dimensions: bench series	3½×16¾×7 inches
Weight	10lbs; 4.53 kg

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STABILITY	1hour	$\pm 0.0005\%$
	8hours	$\pm 0.0010\%$
	1year	$\pm 0.0025\%$ of range+5 μV
load regulation no load to full load		$\pm 0.0005\%$
Thermal EMF mV, μV ranges		1 μV
Vernier control range		$\pm 100\mu\text{V}$

APPLICATIONS: USED FOR CALIBRATION OF DIGITAL VOLTMETERS, ANALOG METERS, SEMICONDUCTOR ANALYZING SYSTEMS, ANALOG REFERENCES FOR A/D CONVERTERS, TELEMETRY AND DATA ACQUISITION SYSTEMS AND AS A POTENTIOMETER FOR MEASURING DC VOLTAGES.

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