

Fluke 752A Reference Divider

Division Ratio	
Division Ratio 10:1 ± 0.2 ppm	Input: 0V to 100V
Division Ratio 100:1 ± 0.5 ppm	Input: 0V to 1000V

Specifications*	
Ratio Ranges	10:1 and 100:1
Ratio Uncertainty	Ratio accuracies that apply for a temperature variation of less than $\pm 1^\circ\text{C}$ from the self-calibration temperature (between 18°C and 28°C) for up to 8 hours following self-calibration: Range 10:0 Input Voltage: 0 to 100V Output Uncertainty: 0.2 ppm Null Accuracy: $\pm 0.5 \mu\text{V}^*^*$ Range 100:1 Input Voltage: 0 to 1000V Output Uncertainty: 0.5 ppm Null Accuracy: $\pm 1.0 \mu\text{V}^*^*$
Temperature Coefficient	$\leq \pm 1$ ppm per $^\circ\text{C}$ over range of 18°C to 28°C (typically 0.1 ppm per $^\circ\text{C}$ from 15°C to 30°C)
Input Resistance	10:1 Ratio: $380 \text{ k}\Omega \pm 1\%$ 100:1 Ratio: Divider is $4 \text{ M}\Omega$; Driven Guard is $4 \text{ M}\Omega$; total is $2 \text{ M}\Omega \pm 1\%$
Maximum Input Voltage	200V for the 10:1 ratio 1100V for the 100:1 ratio
Power Coefficient	≤ 0.05 ppm of output with 100V applied for 10:1 ratio and ≤ 0.3 ppm of output with 1000V applied for 100:1 ratio (included in the ratio accuracy specifications)
Temperature	0°C to 50°C , operating; -40°C to 75°C non-operating
Relative Humidity	$\leq 75\%$ to 40°C , $\leq 45\%$ to 50°C , non-condensing, operating; $\leq 100\%$ 10 - 50°C , non-operating
Altitude	$\leq 3050\text{m}$ (10,000 ft) operating; $\leq 12,220\text{m}$ (40,000 ft) non-operating
Vibration	Per MIL-T-28800C, Type III, Class 5, Style E
Safety	IEC 348, 2nd edition, 1978; ANSI-C39.5, 1980, CSA

	556B, and UL 1244
Size	19.1 cm H x 22.1 cm W x 60.3 cm L (7.53 in H x 8.69 in W x 23.75 in L)
Weight	8.4 kg (18.5 lbs.)

* Specifications apply for the lifetime of the instrument over the temperature range of 18°C to 28°C.

** Null accuracy refers to the required accuracy of the null detector reading during self-calibration.