

Q Factor Meter



Q Factor Meter is a high frequency impedance measuring instrument with its working frequency being from 0.7MHz to 100MHz. So it best suited for measuring high frequency characteristics of inductors with micro scale inductance and distributed parameters on other devices and components. WY2853 is also a high frequency signal generator with good amplitude-frequency characteristic, allowing that it becomes more universal measuring instrument.

Features:

- * Well-designed tuning capacitor in an integral structure:

The total inductance is as tiny as $0.008\mu\text{H}$ (8nH) while the minimum tuning capacitance is as small as 14 Pf.

- * 0.5 MHz to 105MHz LED displaying high frequency signal generator:

Output amplitude $> 1\text{Vrms}$, at 50Ω :+10dBm, 5LEDs frequency display.

- * The latest developed high impedance Q value indicating volt meter:

The indicating frequency response: $0.5\text{MHz}\sim 120\text{MHz}\pm 0.2\text{dB}$, Input capacitance $< 1.2\text{Pf}$,

Automatic zero function.

- * Broad band and low impedance injection transformer:

The equivalent series resistance $< 10\text{m}\Omega$ (0.01Ω).

- * Q value presetting function can speed measurements in production line.

Specifications:

Q Measurement:

Range: 10~1000

Error (based on average value)

Inherent Error: $\pm 5\%$ $\pm 3\%$ of full scale directly read at below 50MHz; the average value is equal to 80% of the nominal one at 80MHz.

Inductance Measurement:

Range: 0.02 μ H~2000 μ H

Error: $\leq 5\% \pm 0.008\mu$ H

Tuning Capacitor:

Main Capacitor: 15Pf~220 Pf

Accuracy: $< \pm 1\% \pm 0.5$ Pf

Residual Inductance: 8nH

Q Presetting Range: 50~300

(Specifications are subject to change without notice.)