

SZT-5 Four Point Probes



Introduction

The SZT-4 silicon composite test is composed of 2 kinds of silicon material testers.

1) 2-range resistance measuring instruments are configured with hand-held four-probe detecting head or seat-type testing stand , which can be used to measure the resistivity for flake, columnar or blocky-shaped . when the semiconductor material's resistivity within 0.01 ~ 200 Ω /CM (**Customer can choose the different range according to different requirements, the minimum measured range is from 0.0001 Ω to 100000 Ω , according to the current file set ccuracy**). certain measurement results can be mended Through adjustment of the constant current source. For example, the tested results of ordinary silicon materials must be multiplied by the detecting head correction coefficient of 0.628; the tested results of silicon material thin-thickness diffusion and conductive thin films "block resistance" must be multiplied by the correction factor of 4.53 and so on; and all conditions above can be handled through adjustment of the constant current.

SZT-4 digital type 4-probe tester is very small, operational convenient and range moderate, which is quite suitable for separating of resmelting back materials.

2) P-N type determinate meter of Silicon Rectifier. configured with 3-probe hand-held probe, which can measured the resistivity (within 1000~ 0.01 Ω /CM) of flake-shaped or block-shaped silicon materials.Determine the polarity of the silicon material

Working atmosphert conditions of this intrument is shown as following:

Temperature: 18-25°C

For more 4pp tester information, please kindly ref:

http://winchoice.en.alibaba.com/productgrouplist-200025055/test_instrument_lab_electronics.html

<http://www.sztc dz.com>

Relative humidity: 50%-70%

There is no strong electric field interference in the working room of this instrument, which is far away from the high frequency equipment.

II Technical parameters

1) measuring range

(1) resistivity: 0.01-200Ω-cm

(2) block resistance: 0.01-200Ω-/□

(3) resistance: 0.01-200.0Ω

2) digital voltmeter

(1) measuring range 200mV single range

(2) deviation: reading $\pm 0.2\% \pm$

(3) input resistance >10MΩ

3) constant current source

(1) electric current output 0~10mA continuously adjustable

(2) measuring range: 1mA, 10mA

(3) error: reading $\pm 0.2\% \pm 3$

4) hand-held type 4-probe test head

(a) probe space: 1mm

(b) probe machinery vacillation rate: $\pm 1.0\%$

(c) probe material: High-speed needle (**if you need we also can change this into tungsten carbideφ0**)

(d) pressure: Max 2kgs

(5) Conductive type discrimination

Can be discriminated The silicon materials polarity with resistivity is 1000-.0.01 Ω / cm, and the tested material can be indicated as the "readulterated material" by means of sound and light alarm.

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