

# Component Parameter Test Instruments

## A. TH2689/TH2689A Capacitor Leakage Current/IR Meter

### Features

- Capacitance leakage test function
- Insulation resistance test function
- Aluminum foil pressure and rise time test function
- Precise low current charge function(0.5mA±0.05mA)
- Large current (500mA)improves the charge speed of low voltage large capacitance.  
Continuously adjust Test voltage(TH2689 1.0V~800V/ TH2689 1.0V~500V) and real-time monitor the output voltage
- Test range from 0.001uA—20.00mA, 4 digit display
- Open correction(null) to eliminate the remaining base number
- Built-in digit counter
- Comparator function to realize the sorting of PASS/FAIL
- 10 groups of status for save and load
- Standard RS232 interface, Handler interface, optional GPIB interface
- Large LCD ( 240×64 dot-matrix )display
- Humanized operation interface



TH2689/A

### Brief Introduction

■ TH2689/TH2689A is a rapid and precise capacitance leakage current insulation resistance tester. The max. test speed of 18 times/second, good performance and the suitable price provide the user an optimal choice.

TH 2689/TH2689A provides max. test voltage: 800v/500v, charge current: 0.5mA—500.0mA( if >100V, the max. power 50W can limit). It is mainly applied in capacitance leakage current, insulation resistance and aluminum electrolysis capacitance anode foil pressure test. Also it can be applied in the confirmation of annihilator, zener diode, neonbulb .etc and leakage current test. Standard Handler interface, stable and rapid test, to reach the sorting effect

Standard RS 232 interface, optional GPIB interface, and general RS232 software are provided to meet the demand of connecting with computer and forming auto test system. The instrument can receive the SCPI command to guarantee the compatibility of communication software.

### Specifications

Parameter	LC, IR, Tr, Vf
Range	AUTO, HOLD
Trigger mode	INT/MAN/EXT/BUS
Sorting	High、 Low、 Pass with beeper alarm
Setting storage	10 groups of status can be saved and loaded
Communication interface	RS232 GPIB(optional) SCPI command program supportable

Performance parameter: (condition, working temperature: 0°C—40°C, humidity : 90%RH,warmup time≥20 min)

LC/IR test	
Test voltage	TH2689 : 1.0V — 800V TH2689A: 1.0V — 500V Accuracy : ±(0.5% set value+0.2V)
Charge current	test voltage ≤100V,0.5mA—500mA; test voltage > 100V,0.5mA—Imax, Imax=50W/test voltage Accuracy: ±(3% set value+0.05mA)
Test range	LC: 0.001uA — 20.00mA IR: 0.01kΩ — 99.99GΩ
Basic accuracy	LC: ±(0.3%+0.05uA)
Charge time upper limit	0 — 999s manual
Test time	FAST: 40ms MED : 60ms SLOW: 120ms Test condition: range is locked, trigger mode is EXT and the external trigger voltage displays the closing state
Limit setting	LC: 0 — 999.999mA IR: 0 — 999.999GΩ
Sorting	Pass, Fail
W. V. test	
Vf Rated involucra voltage	TH2689 : 1.0V — 800V TH2689A: 1.0V — 500V
Charge current	0.5mA — Imax Imax = 65W/Vf Accuracy: ± (3% set value+0.05mA)
Charge time upper limit	5s — 600s manual
Pressure time	30s — 600s manual

### Ordering Information

TH2689 Capacitor Leakage Current/IR Meter

TH2689A Capacitor Leakage Current/IR Meter

### Instrument Accessories

TH26003 2 terminal test fixture

TH26004D 3 terminals test clip leads