Hipot Tester

Equipped with Rise Time Control Function





TO5052(ACW)

* While Supplies Last

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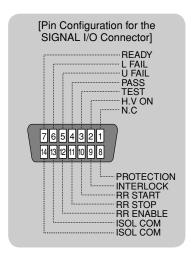
Rise Time Control function is enable to comply to the Standard requirements for those degradation, destructive testing of sensitive materials

TOS5052 is a special tester designed for withstand voltage testing of electronic equipment and components conforming to various official safety standards. In addition to having an output of 5 kV AC at 100 mA, this model permits output voltage presetting, selection of output frequency (50 or 60 Hz), and rise-time control to control time for voltage to reach a preset level.

The display uses a large, high-brightness, color fluorescent tube for clear display of numbers, operation status, results, and other information.

For fast and accurate testing, the TOS5052 permits dual-axis operation of the test voltage range selector switch and voltage setting knob, and separate up-down keys for determination current and timer settings. Easier to use than ever before, the TOS5052 also incorporates various safety and security features, including key lock, interlock, high-voltage output terminals limiting the number of insertion holes, and large "DANGER" warning lamps. These features make using the TOS5052 safe and reliable.

- Complies with various standards
- Rise-time control function
- High-output test voltage
- Acceptance determination by the window comparator method



Hipot Tester

Output v	oltage range	0.50 kV to 5.00 kVAC (100 mA output possible range)
Voltage s	setting range	0.00 to 2.95 kV/0.00 to 5.45 kV,
	0 0	2 ranges (3-digit digital setting)
	Setting accuracy	±(2% of setting + 2 digits) at 0.20 kV or higher with no load
Resolution		10V
Maximum rated output *1		500VA (5kV/100mA)
Transfor	mer capacity	500VA
Output voltage waveform		Sine wave
Distortion factor		Output voltage of 0.5 kV or higher: 2% or less (under no load or resistive load)
Frequency		50 or 60 Hz selectable (0.5% of setting, except during voltage rise)
Voltage regulation		9% or less (maximum rated load to no load)
Output type		PWM switching
Output voltage		Output is shut off and protection is effected when the output voltage exceeds the set value plus 200V. "kV" blinks when the output voltage falls below the set voltag minus 100V.
Output v	oltmeter	
Analog	Scale	5 kV f.s
	Accuracy	±5% f.s
	Indication	Mean-value response/rms-value indication
Digital	Scale	2.5 kV/5 kV f.s
	Accuracy	±1.5% f.s when the measured voltage does not change within the digital voltmeter's response time.
	Response	Mean-value response/rms-value indication (400 ms response time)
	Hold function	The voltage measured at the end of test is held during th PASS or FAIL interval.
Ammete	r	
Digital	Measuring range	0.00 to 110mA
Ü	Accuracy	\pm (5% of upper cutoff current+ 20 μ A) when the measure current does not change within the digital ammeter's response time.
	Response	Mean-value response/rms-value indication (400 ms response time)
	Hold function	The current measured at the end of test is held during the PASS interval.
Judgeme	nt function	
Judgement system		Window comparator system •FAIL is judged when a current greater than the upper cutoff current is detected. •FAIL is judged when a current smaller than the lower cutoff current is detected. •OUTPUT is shut off and FAIL SIGNAL is generated when FAIL is judged. •PASS SIGNAL is generated when no anomaly is found within the set time.
Upper cu	toff current range	0.1 to 110mA
Lower cutoff current range		0.1 to 110mA The TOS5052 makes no lower pass/fail judgment while the voltage is rising and for approximately 0.2s after the voltage is made constant.
Judgement accuracy		±(5% of upper cutoff current +20μA)
Current detection method		Absolute value of current is integrated and compared against the reference value.
Calibration		The root mean square value of sine wave is calibrated using the pure resistive load.
Illuminat	tors and LEDs	<u> </u>
	PASS	Lit for approximately 0.2 s when PASS is judged. Held on when PASS HOLD is enabled.
	UPPER FAIL	Lit when a current greater than the upper cutoff current is detected and FAIL is judged.
	LOWER FAIL	Lit when a current smaller than the lower cutoff current is detected and FAIL is judged.
Buzzer		•Turned on for approximately 0.2 s when PASS is judged. •Held on in the following cases:PASS is judged –when PASS HOLD is enabled. UPPER FAIL is judged. LOWER FAIL is judged. The volume of the FAIL or PASS buzzer may be adjusted. The volume setting is common to be

Time				
Voltage	Range	0.1 to 99.9s 0.1s step		
	Accuracy	±20ms		
Test time	Range	0.3 to 999 s(TIMER OFF function available)		
	Accuracy	±20ms		
Environment				
Warranty	Temperature	5 to 35°C		
range	Humidity	20 to 80%rh (non condensing)		
Operating	Temperature	0 to 40°C		
range	Humidity	20 to 80%rh (non condensing)		
Storage	Temperature	-20 to 70°C		
range	Humidity	90%rh or less (non condensing)		
Power requirement				
Allowable voltage range		90V to 110V The following power voltage options are factory options:		
		(104 V to 125 V)(194 V to 236V) (207 V to 250 V)		
Power	No load time (READY)	150 VA or less		
consumption	Rated load time	1,000 VA max.		
Allowable frequency range		45Hz to 65Hz		
Insulation resistance		$30M\Omega$ min. (500VDC), between AC line and chassis		
Hipot		1,390 V AC (2 seconds), between AC line and chassis		
Ground continuity		25 A AC/ 0.1Ω max.		
Electromagnetic compatibility (EMC)*2				
Conformate de la consistencia de fallación discretiva en detendand				

Conforms to the requirements of the following directive and standard. EMC Directive 2004/108/EC, EN61326, EN61000-3-2, EN61000-3-3 Under following conditions

- 1. Used HV test leadwires which is supplied.
- 2. No discharge in testing.
- 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used.

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Safety	v*2.	3

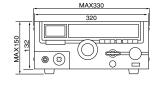
Conforms to the requirements of the following directive and standard.

Low Voltage Directive 2006/95/EC EN61010-1 Class I, Pollution degree 2

Dimensions (MAX)	320(330) W × 132(150) H × 420(490) Dmm			
Weight	Approx. 22kg			
Accessories				
AC Power cable	1 Piece.			
High-voltage test leadwire	TL01-TOS (1.5m) 1 set			
14-pin Amphenol plug	1 piece., assembly type			
"DANGER HIGH VOLTAGE" sticker	1 sheet			
AC power fuse	2 pieces. (One in present use and the other as spare in the fuse holder cap)			
Operation manual	1 copy			

- *1: Maximum testing time is 30 minutes. However, it may limit the continuous duration (time) of output by upper current limit and the environmental temperature.
- *2: Only on models that have CE marking on the panel. Not applicable to custom order
- *3: This instrument is a Class I equipment. Be sure to ground the protective conductor terminal of the instrument. The safety of the instrument is not guaranteed unless the instrument is grounded properly.

-External dimensional diagrams-





Unit: mm