

TID series, Stable Precision Low TC

Tank Inserted Stray Free High Voltage Dividers, Probe



## Wide Band in DC to 1MHz(75MHz), DC Accuracy 0.1%, 0.5%, 1%, DC-TC 5ppm, 10ppm, 20ppm. 150kVp, R-C compensation, Square Pulse

3RLab produces TID- series High Voltage Ultra Stable Precision Low TC High Accuracy Dividers & Probe for High Voltage; Square Pulse, DC, AC, Impulses of Precision Measurement Systems.



## TID series are Standard High Voltage Divider and Probe

TID measures and senses pulsings, artificially modulated repetitive pulsings, various durations, fast rising time, Square Pulsing, DC, AC, wideband from DC to 1MHz.

TID matches to oscilloscope, precision digital multimeter.

Accuracy very specially 0.1% DC, and DC-TC 2ppm, DC-VC 0.005ppm typ.

Regarding Traceability, DC and AC 50/60Hz calibration available in Korea Research Institute of Standards and Science(KRISS). AC to 1MΩ & <150pF DM, DC to 10G-DM, DC to 10MΩ DM, Square Pulse to 1MΩ & 11pF Scope, AC to 1MΩ & 11pF Scope.

\*3RLab,Inc.

TID-series are basically designed for indoor use in air.

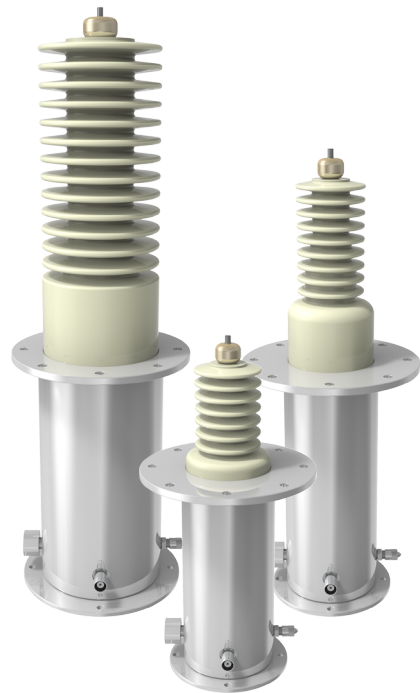
Special use is available for custom requests such as in oil, out door and various atmosphere.




Various HV input terminal is offerable for convenient use.

3RLab direct Mfgr of ultra Low TC ,Stable Cylindrical and Flat type HV non-inductive precision resistors for past 21years. TID series place high-performance resistors, what for more long life stability better than any other competitors.

3RLab,Inc. has been also furnished many kind of High Voltage Impulsing test systems, DC and modulating systems, AC systems, HV Switching type Marks Generator and classical type MGs.

So, available to test and get simulation at various directions.



Model	Drawing	Max Operate Voltage [kV] AC-peak, Pulsing-Peak, DC	Max. Single Impulse [kV] for 1.2/50uS or shorter duration	Ratio Accuracy		
				DC [%]	AC 0Hz/60Hz [%]	<sup>1)</sup> Stability[%]
TID-30		30	50	0.1	1	0.1 , 0.2
TID-50		50	70	0.1	1	0.1 , 0.2
TID-100		100	150	0.1	1	0.1 , 0.2

Model	Accuracy of Norminal Frequency Range 3% to -3dB	Norminal High Voltage Input Range		
		Std. Resistance [MΩ] Around	Requested Special Resistance [MΩ], or Custom Value Available	Capacitance [pF]
TID-30	DC ~5MHz	500	1000	3 ~ 12
TID-50	DC ~5MHz	1000	2000	3 ~ 12
TID-100	DC ~5MHz	2000	4000	3 ~ 12

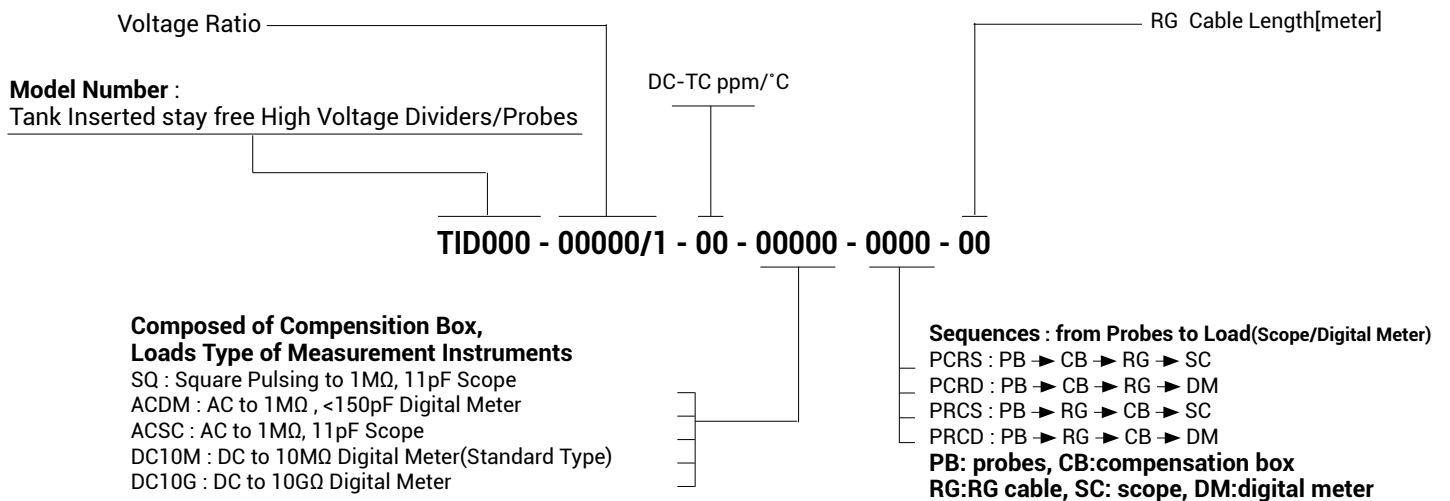
Model	DC TC [ppm/C]	Length of RG Coaxial Cable [Meters] (others upon request)	Ratio Included 3RLab's Coaxial Cable, to 1MΩ <11pF Scopes	
			Std. Ratio.	Requested Special Ratio. Custom Ratio. Available
TID-30	5ppm std., 2ppm, 3ppm, 10ppm Special	3m, 5m	1,000/1	1000/1~10,000/1
TID-50	5ppm std., 2ppm, 3ppm, 10ppm Special	3m, 5m	2,000/1	1000/1~10,000/1
TID-100	5ppm std., 2ppm, 3ppm, 10ppm Special	3m, 5m	3,000/1	1000/1~10,000/1

1) TESTED DC RATIO @10HRS. FOR 4MINS, AND @ 7DAYS FOR 4MINS, AFTER THE LOADING AT ORPERATE RATED DC VOLTAGES  
OTHERS MIGHT BE AVAILABLE UPON REQUEST

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Model	Dimensions [mm]	Dimension in bottom plate [mm]	Dimension in detail	Insulation Type
TID-30	289	99dia	See Dwgs.	SF6
TID-50	370	99dia	See Dwgs.	SF6
TID-100	463	130dia	See Dwgs.	SF6

## ORDERING INFORMATION



All of specifications Subject to change without prenotice.

ALL INFORMATION ON THIS FILE IS SUBJECT TO CHANGE WITHOUT PRE-NOTICE.