SVD

SVD series, Stable Precision Low TC
Standard High Voltage Dividers, Probe

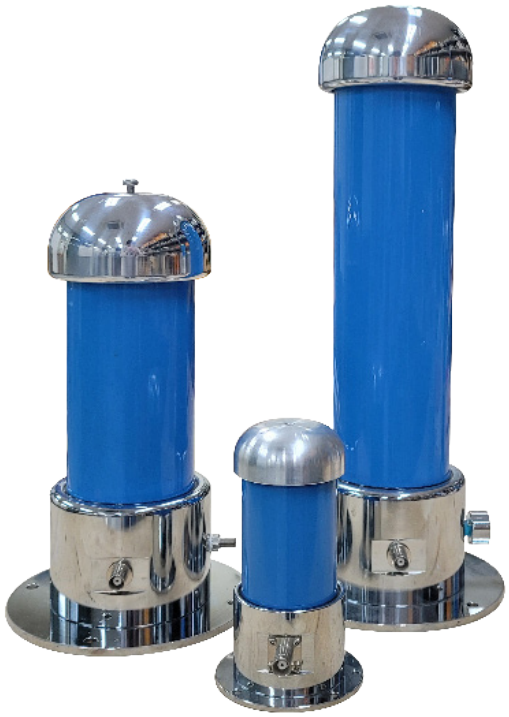
Calibration Grade, DC to 1MHz (75MHz), Accuracy 0.1%, DC-TC 2ppm 5ppm. 1000kVp, R-C compensation, Square Pulse, AC, Variable Pulse & Wave Shapes measurable.

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

SVD series are Standard High Voltage Dividers and Probes.

SVD measures and senses pulsing, artificially modulated repetitive pulsing, various durations,
fast-rising time, Square Pulsing, DC, AC, and wide-band from DC to 1MHz.
SVD matches the oscilloscope, precision digital multi-meter.
Accuracy very special 0.01% DC, DC-TC 2ppm, DC-VC 0.005ppm typ.
Regarding Traceability, DC and AC50/60Hz calibration are available from the Korean 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.
The SVD-series are designed for indoor use in the air as standard. Special use is available for custom requests such as oil, outdoors, and various atmospheres. Various HV input terminals are available for convenience.
3RLab direct Mfgr of ultra Low TC ,Stable Cylindrical and Flat type HV non-inductive precision resistorss for past 21years.
SVD series put a lot of quantity of resistors sufficiently, which for long-life stability is much better than any other competitors.
3RLab, Inc. has furnished many kinds of High Voltage Impulsing test systems, DC and modulating systems, AC systems, HV Switching type Marks Generators and classical type MGs.
This allows you to test and simulate in different directions.



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RoHS COMPLIANT

UPDATE 2025-04-09

SVD

SVD series, Stable Precision Low TC
Standard High Voltage Dividers, Probe

Model	Drawing	Features	Max. Operate Volage[kV] AC-peak , Pulsing-Peak, DC	Max. Single Impulse[kV] for 1.2/50uS or shorter duration	Accuracy		
					DC [%]	AC 0Hz/60Hz [%]	1) Stability [%]
SVD10C		Compact Design	10	12	0.01, 0.05, 0.1, 0.2	0.5 , 1	0.1 , 0.2
SVD15		Std. Design	15	30	0.01, 0.05, 0.1, 0.2	0.5 , 1	0.1 , 0.2
SVD30		Std. Design	30	60	0.01, 0.05, 0.1, 0.2	0.5 , 1	0.1 , 0.2
SVD45		Std. Design	45	90	0.01, 0.05, 0.1, 0.2	0.5 , 1	0.1 , 0.2
SVD60		Std. Design	60	120	0.01, 0.05, 0.1, 0.2	0.5 , 1	0.1 , 0.2
SVD75		Std. Design	75	150	0.01, 0.05, 0.1, 0.2	0.5 , 1	0.1 , 0.2
SVD90		Std. Design	90	180	0.01, 0.05, 0.1, 0.2	0.5 , 1	0.1 , 0.2
SVD120		Std. Design	120	240	0.01, 0.05, 0.1, 0.2	0.5 , 1~3	0.1 , 0.2
SVD150		Std. Design	150	300	0.01, 0.05, 0.1, 0.2	0.5 , 1~3	0.1 , 0.2
SVD195		Std. Design	195	390	0.01, 0.05, 0.1, 0.2	1~3	0.1 , 0.2
SVD240		Std. Design	240	480	0.01, 0.05, 0.1, 0.2	1~3	0.1 , 0.3
SVD480		Std. Design	480	960	0.01, 0.05, 0.1, 0.2	3	0.3

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

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Model	Drawing	Accuracy of Norminal Frequency Range 3% to 3dB	Norminal High Voltage Input Range		
			Std. Resistance [MΩ] Around	Requested Special Resistance [MΩ], or Custom Values Avaiable	Capacitance[pF]
SVD10C		DC ~5MHz	20	40	3 ~ 12
SVD15		DC ~5MHz	30	60	3 ~ 12
SVD30		DC ~5MHz	60	120	3 ~12
SVD45		DC ~2MHz	100	180	3 ~ 12
SVD60		DC ~2MHz	120	240	3 ~ 12
SVD75		DC ~1MHz	150	300	3 ~ 8
SVD90		DC ~1MHz	180	360	3 ~ 8
SVD120		DC ~1MHz	240	480	3 ~ 8
SVD150		DC ~1MHz	300	600	3 ~ 8
SVD195		DC ~1MHz	390	780	3 ~ 8
SVD240		DC ~1MHz	480	960	3 ~ 8
SVD480		DC ~1MHz	960	1800	3 ~ 8

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Model	Drawing	DC TC [ppm/C]	Length of RGCoaxial Cable [Meters] (Others upon rquest)	Ratio Included 3RLab's Coaxial Cable, to 1MΩ <11pF Scopes	
				Std. Ratio	Requested Special Ratio Custom Ratio Available
SVD10C		10ppm std., 2ppm, 3ppm, 5ppm Special	3m, 5m	1,000/1	100/1* ~10,000/1
SVD15		10ppm std., 2ppm, 3ppm, 5ppm Special	3m, 5m, 10m	1,000/1	100/1* ~10,000/1
SVD30		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	5,000/1	1,000/1~10,000/1
SVD45		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	5,000/1	1,000/1~10,000/1
SVD60		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	5,000/1	1,000/1~10,000/1
SVD75		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	5,000/1	1,000/1* 2,000/1~10,000/1
SVD90		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	5,000/1	1,000/1* 2,000/1~10,000/1
SVD120		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	10,000/1	1,000/1* 5,000/1~50,000/1
SVD150		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	10,000/1	1,000/1* 5,000/1~50,000/1
SVD195		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	10,000/1	1,000/1* 5,000/1~50,000/1
SVD240		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	20,000/1	1,000/1* 5,000/1~50,000/1
SVD480		10ppm std., 2ppm, 3ppm, 5ppm Special	5m,10m	20,000/1	1,000/1* 10,000/1~50,000/1

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Model	Drawing	Dimensions [mm] Height from the bottom plate to the top of Std. Corona Cap, See each Dwg.	Optional Toroidal Co-rona Ring; Overall dia x Ring dia[mm]	Dimensions in the bottom plate[mm]	Dimensions in detail	Insulation Type
SVD10C		102 (BNC additional)	N/A	60dia	See Dwgs.	Air
SVD15		210	N/A	152dia	See Dwgs.	SF6, Oil
SVD30		250	N/A	152dia	See Dwgs.	SF6, Oil
SVD45		318	300 x 76	152dia	See Dwgs.	SF6, Oil
SVD60		378	300 x 76	152dia	See Dwgs.	SF6, Oil
SVD75		475	300 x 76	203dia	See Dwgs.	SF6, Oil
SVD90		535	300 x 76	203dia	See Dwgs.	SF6, Oil
SVD120		661	300 x 76 , 530x125	203dia	See Dwgs.	SF6, Oil
SVD150		850	300 x 76 , 530x125	350dia	See Dwgs.	SF6, Oil
SVD195		1050	530 x 125	350dia	See Dwgs.	SF6, Oil
SVD240		1157	530 x 125	350dia	See Dwgs.	SF6, Oil
SVD480		2360	530 x 125	350dia	See Dwgs.	SF6, Oil

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ORDERING INFORMATION

Voltage Ratio

Model Number :
Standard High Voltage Dividerss/Probes

DC-TC ppm/˚C

RG Cable Length[meter]

Insulation Type
GF: SF6
OF: Oil

SVD000 - 00000/1 - 00 - 00000 - 0000 - 00 -00

Composed of Compensation Box,
Loads Type of Measurement Instruments
SQ :Square Pulsing to 1MΩ, 11pF Scope
ACDM : AC to 1MΩ , <150pF Digital Meter
ACSC : AC to 1MΩ, 11pF Scope
DC10M : DC to 10MΩ Digital Meter(Standard Type)
DC10G : DC to 10GΩ Digital Meter
MP : Above 4 options Selectable in one compensation box

Sequences : from Probes to Load(Scope/Digital Meter)
PCRS : PB ► CB ► RG ► SC
PCRD : PB ► CB ► RG ► DM
PRCS : PB ► RG ► CB ► SC
PRCD : PB ► RG ► CB ► DM
PB: probes, CB:compensation box
RG:RG cable, SC: scope, DM:digital meter

ALL SPECIFICATIONS MAY CHANGE WITHOUT NOTICE

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