

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

VOICE : +82-31-429-6379
FAX : +82-31-429-9127
E-MAIL : info@3RLab.com



**Calibration Grade, DC to 1MHz(75MHz),Accuracy 0.01%~0.1%, DC-TC 2ppm 5ppm .
1000kVp, R-C compensation, Square Pulse**

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

SVD series are Standard High Voltage Divider and Probe.

SVD measures and senses pulsings, artificially modulated repetitive pulsings, various durations, fast rising time, Square Pulsing, DC, AC, wideband from DC to 1MHz (75MHz on SVD7015A).
SVD matches to oscilloscope, precision digital multimeter.
Accuracy very specially 0.01% DC, and DC-TC 2ppm, DC-VC 0.005ppm typ.
Regarding Traceability,DC and AC50/60Hz calibration available in Korea Research Institute of Standards and Science(KRISS).
Especially, SVD-0000-MP(multi purpose,see ordering information) simply selectable 4modes to input Impedances;
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. SVD-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. SVD series put a lot of quantity of resistors sufficiently ,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.
















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Model	Drawing	Characteristics	Max Operate Voltage [kV] AC-peak , Pulsing-Peak, DC	Max. Single Impulse [kV] for 1.2/50uS or shorter duration	Ratio Accuracy		
					DC [%]	AC 50Hz/60Hz [%]	1) Stability [%]
SVD5R		Rectangled	5	8	0.1	0.5 , 1	0.1 , 0.2
SVD10R		Rectangled	10	15	0.1	0.5 , 1	0.1 , 0.2
SVD10C		Compact Design	10	12	0.1	0.5 , 1	0.1 , 0.2
SVD15		Std. Design	15	30	0.1	0.5 , 1	0.1 , 0.2
SVD-7015A		Economic Version	20	40	0.1	0.5	0.2
SVD30		Std. Design	30	60	0.1	0.5 , 1	0.1 , 0.2
SVD45		Std. Design	45	90	0.1	0.5 , 1	0.1 , 0.2
SVD-8015A		Economic Version	55	100	0.1	1	0.2
SVD60		Std. Design	60	120	0.1	0.5 , 1	0.1 , 0.2
SVD75		Std. Design	75	150	0.1	0.5 , 1	0.1 , 0.2
SVD90		Std. Design	90	180	0.1	0.5 , 1	0.1 , 0.2
SVD-9015A		Economic Version	100	200	0.1	1	0.2
SVD120		Std. Design	120	240	0.1	0.5 , 1~3	0.1 , 0.2
SVD150		Std. Design	150	300	0.1	0.5 , 1~3	0.1 , 0.2
SVD195		Std. Design	195	390	0.1	1~3	0.1 , 0.2
SVD240		Std. Design	240	480	0.1	1~3	0.1 , 0.3
SVD480		Std. Design	480	960	0.5	3	0.3

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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 V alue Available	Capacitance[pF]
SVD5R		DC ~5MHz	10	20	3 ~ 12
SVD10R		DC ~5MHz	20	40	3 ~12
SVD10C		DC ~5MHz	20	40	3~12
SVD15		DC ~5MHz	30	60	3 ~ 12
SVD-7015A		DC ~ (max 75MHz)	150	N/A	3~12
SVD30		DC ~5MHz	60	120	3 ~12
SVD45		DC ~2MHz	100	180	3 ~ 12
SVD-8015A		DC ~2MHz	300	N/A	3~8
SVD60		DC ~2MHz	120	240	3 ~ 12
SVD75		DC ~1MHz	150	300	3 ~ 8
SVD90		DC ~1MHz	180	360	3 ~ 8
SVD-9015A		DC ~2MHz	400	N/A	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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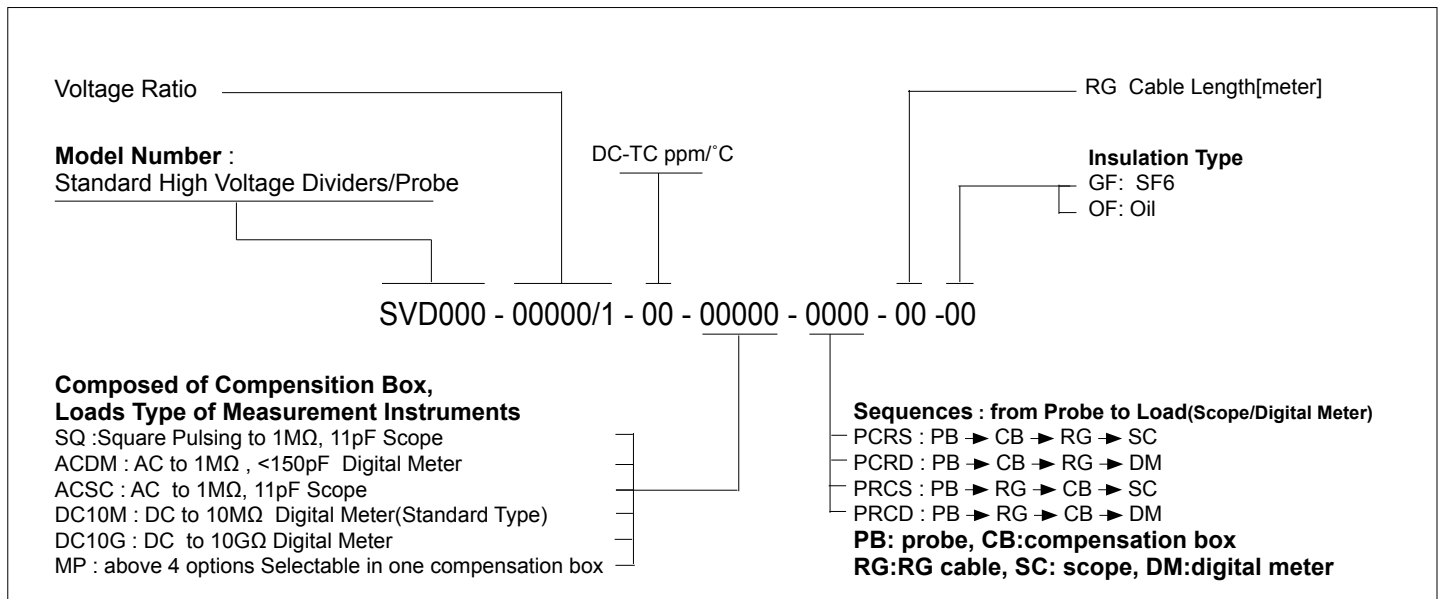
Model	Drawing	DC TC [ppm/C]	Length of RG Coaxial Cable [Meters] (others upon request)	Ratio Included 3RLab's Coaxial Cable , to 1MΩ <11pF Scopes	
				Std. Ratio,	Requested Special Ratio. Custom Ratio Available
SVD5R		5ppm std. , 2ppm , 3ppm , 10ppm Special	3m , 5m	1,000/1	100/1~10,000/1
SVD10R		5ppm std. , 2ppm , 3ppm , 10ppm Special	3m , 5m	1,000/1	100/1* ~10,000/1
SVD10C		5ppm std. , 2ppm , 3ppm , 10ppm Special	3m , 5m	1,000/1	100/1* ~10,000/1
SVD15		5ppm std. , 2ppm , 3ppm , 10ppm Special	3m , 5m , 10m	1,000/1	100/1* ~10,000/1
SVD-7015A		10ppm	3m , 5m, 10m	1,000/1	1,000/1
SVD30		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	5,000/1	1,000/1~10,000/1
SVD45		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	5,000/1	1,000/1~10,000/1
SVD-8015A		10ppm	5m , 10m	5,000/1	5,000/1
SVD60		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	5,000/1	1,000/1~10,000/1
SVD75		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	5,000/1	1,000/1* 2,000/1~10,000/1
SVD90		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	5,000/1	1,000/1* 2,000/1~10,000/1
SVD-9015A		10ppm	5m,10m	5,000/1	10,000/1
SVD120		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	10,000/1	1,000/1* 5,000/1~50,000/1
SVD150		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	10,000/1	1,000/1* 5,000/1~50,000/1
SVD195		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	10,000/1	1,000/1* 5,000/1~50,000/1
SVD240		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	20,000/1	1,000/1* 5,000/1~50,000/1
SVD480		5ppm std. , 2ppm , 3ppm , 10ppm Special	5m,10m	20,000/1	1,000/1* 10,000/1~50,000/1

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Model	Drawing	Dimension [mm] Height from bottom plate to top of Std. Corona Cap, See each Dwgs.	Optional Toroidal Corona Ring; Overall dia x Ring dia[mm]	Dimension in bottom plate[mm]	Dimension in detail	Insulation Type
SVD5R		80Wx60Dx50H	N/A	N/A	See Dwgs.	Oil
SVD10R		80Wx60Dx65H	N/A	N/A	See Dwgs.	Oil
SVD10C		100 (BNC additional)	N/A	60dia	See Dwgs.	Oil
SVD15		210	N/A	203dia	See Dwgs.	SF6, Oil
SVD-7015A		200	N/A	120dia	See Dwgs.	Oil
SVD30		287	N/A	203dia	See Dwgs.	SF6, Oil
SVD45		333	300 x 76	203dia	See Dwgs.	SF6, Oil
SVD-8015A		350	N/A	120dia	See Dwgs.	Oil
SVD60		410	300 x 76	203dia	See Dwgs.	SF6, Oil
SVD75		475	300 x 76	203dia	See Dwgs.	SF6, Oil
SVD90		535	300 x 76	203dia	See Dwgs.	SF6, Oil
SVD-9015A		500	N/A	120dia	See Dwgs.	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

ORDERING INFORMATION



All of specifications Subject to change without prenotice.