



TYPE SGV @85°C

S SERIES

S U R F A C E

M O U N T

A L U M I N U M

C A P A C I T O R S

SPECIFICATIONS

- Temperature Range: -40 ~ +85°C
- Rated Voltage Range: 4 ~ 50 VDC
- Capacitance Tolerance: ±20%
- Capacitance Range: .1 ~ 1000μF
- Size Range: 3.0mm ~ 10.0mm diameter
5.4mm ~ 10.2mm
- Load Life - 2000 Hours @ 85°C



Part Number	Cap μF	Voltage	Max ripple current mA/85°C 120Hz	Max ESR Ohms 120Hz 20°C	Max LC μA for 2 minutes	Size (mm) Dia	Size (mm) L
SGV220M004RT	22	4	19.00	21.10	3.0	3.0	5.4
SGV330M004RT	33	4	26.00	14.00	3.0	4.0	5.4
SGV470M004RT	47	4	34.00	9.87	3.0	4.0	5.4
SGV101M004RT	100	4	61.00	4.64	4.0	5.0	5.4
SGV221M004RT	220	4	82.00	2.11	8.8	6.3	5.4
SGV220M6R3RT	22	6.3	20.00	15.60	3.0	4.0	5.4
SGV330M6R3RT	33	6.3	22.00	14.00	3.0	5.0	5.4
SGV470M6R3RT	47	6.3	46.00	7.33	3.0	5.0	5.4
SGV101M6R3ST	100	6.3	71.00	3.44	6.3	6.3	5.4
SGV221M6R3RT	220	6.3	250.00	2.11	13.9	8.0	6.2
SGV331M6R3RT	330	6.3	300.00	1.40	20.9	8.0	6.2
SGV471M6R3RT	470	6.3	380.00	0.98	29.6	8.0	10.2
SGV102M6R3RT	1000	6.3	700.00	0.46	63.0	10.0	10.2
SGV220M010RT	22	10	28.00	18.00	3.0	4.0	5.4
SGV330M010RT	33	10	43.00	8.03	3.3	5.0	5.4
SGV470M010RT	47	10	43.00	8.46	4.7	5.0	5.4
SGV101M010RT	100	10	71.00	3.44	10.0	6.3	5.4
SGV221M010RT	220	10	250.00	1.56	22.0	8.0	6.2
SGV331M010RT	330	10	330.00	1.04	33.0	8.0	10.2
SGV471M010RT	470	10	400.00	0.73	47.0	10.0	10.2
SGV100M016RT	10	16	28.00	21.20	3.0	4.0	5.4
SGV220M016RT	22	16	39.00	10.40	3.5	5.0	5.4
SGV330M016RT	33	16	45.00	9.64	5.3	5.0	5.4
SGV470M016RT	47	16	70.00	4.51	7.5	6.3	5.4
SGV101M016RT	100	16	70.00	3.44	16.0	6.3	5.4
SGV221M016RT	220	16	280.00	1.20	35.2	8.0	10.2
SGV331M016RT	330	16	380.00	0.80	52.8	10.0	10.2
SGV471M016RT	470	16	420.00	0.56	75.2	10.0	10.2
SGV4R7M025RT	4.7	25	22.00	39.50	3.0	4.0	5.4
SGV100M025RT	10	25	28.00	18.50	3.0	5.0	5.4
SGV220M025RT	22	25	55.00	8.44	5.5	6.3	5.4
SGV330M025RT	33	25	65.00	6.40	8.3	6.3	5.4
SGV470M025RT	47	25	165.00	4.50	11.8	8.0	6.2
SGV101M025RT	100	25	180.00	2.12	25.0	8.0	10.2
SGV221M025RT	220	25	310.00	0.96	55.0	10.0	10.2
SGV2R2M035RT	2.2	35	8.00	72.40	3.0	3.0	5.4
SGV3R3M035RT	3.3	35	10.00	48.40	3.0	3.0	5.4
SGV4R7M035RT	4.7	35	22.00	33.80	3.0	4.0	5.4
SGV100M035RT	10	35	30.00	15.90	3.5	5.0	5.4
SGV220M035RT	22	35	60.00	7.23	7.7	6.3	5.4
SGV330M035RT	33	35	130.00	5.62	11.6	8.0	6.2
SGV470M035RT	47	35	165.00	3.95	16.5	8.0	6.2
SGV101M035RT	100	35	210.00	1.85	35.0	10.0	10.2
SGVR01M050RT	0.1	50	1.00	1593.00	3.0	4.0	5.4
SGVR22M050RT	0.22	50	2.00	723.00	3.0	4.0	5.4
SGVR33M050RT	0.33	50	3.00	482.00	3.0	4.0	5.4
SGVR47M050RT	0.47	50	5.00	338.00	3.0	4.0	5.4
SGV1R0M050RT	1	50	10.00	159.00	3.0	4.0	5.4
SGV2R2M050RT	2.2	50	16.00	72.30	3.0	4.0	5.4
SGV3R3M050RT	3.3	50	16.00	48.20	3.0	4.0	5.4
SGV4R7M050RT	4.7	50	23.00	33.80	3.0	5.0	5.4
SGV100M050RT	10	50	35.00	15.90	5.0	6.3	5.4
SGV220M050RT	22	50	110.00	7.23	11.0	8.0	6.2
SGV330M050RT	33	50	120.00	4.82	16.5	8.0	10.2
SGV470M050RT	47	50	130.00	3.38	23.5	10.0	10.2



TYPE SSV @105°C

S SERIES

S U R F A C E M O U N T A L U M I N U M C A P A C I T O R S

SPECIFICATIONS

- Temperature Range: -40 ~ +105°C
- Rated Voltage Range: 6.3 ~ 50 VDC
- Capacitance Tolerance: $\pm 20\%$
- Capacitance Range: .1 ~ 470 μ F
- Size Range: 4.0mm ~ 10.0mm diameter
5.4mm ~ 10.2mm length
- Load Life - 1000 Hours @ 105°C



Part Number	Cap μ F	Voltage	Max ripple current mA/105°C 120 Hz	Max ESR Ohms 120 Hz 20°C	Max LC μ A for 2 minutes	Size (mm) Dia	Size (mm) L
SSV220M6R3RT	22	6.3	29	18	3	4	5.4
SSV330M6R3RT	33	6.3	43	12	3	5	5.4
SSV470M6R3RT	47	6.3	46	8.46	3	5	5.4
SSV101M6R3RT	100	6.3	71	4.64	6.3	6.3	5.4
SSV221M6R3RT	220	6.3	160	2.11	13.92	8	10.2
SSV331M6R3RT	330	6.3	230	1.4	20.79	8	10.2
SSV330M010RT	33	10	43	8.84	3.3	5	5.4
SSV470M010RT	47	10	70	8.46	4.7	6.3	5.4
SSV101M010RT	100	10	110	3.97	10	8	6.2
SSV221M010RT	220	10	160	1.56	22	8	10.2
SSV331M010RT	330	10	230	0.64	33	10	10.2
SSV471M010RT	470	10	270	0.45	47	10	10.2
SSV100M016RT	10	16	28	21.2	3	4	5.4
SSV220M016RT	22	16	39	9.64	3.5	5	5.4
SSV330M016RT	33	16	65	8.03	5.3	6.3	5.4
SSV470M016RT	47	16	70	5.64	7.5	6.3	5.4
SSV101M016RT	100	16	130	2.65	16	8	10.2
SSV221M016RT	220	16	210	1.2	35.2	10	10.2
SSV331M016RT	330	16	230	0.8	52.8	10	10.2
SSV4R7M025RT	4.7	25	22	39.5	3	4	5.4
SSV100M025RT	10	25	28	18.5	3	5	5.4
SSV220M025RT	22	25	55	8.44	3	6.3	5.4
SSV330M025RT	33	25	65	6.43	8.3	6.3	5.4
SSV470M025RT	47	25	91	4.51	11.8	8	6.2
SSV101M025RT	100	25	130	2.12	25	8	10.2
SSV4R7M035RT	4.7	35	22	33.8	3	4	5.4
SSV100M035RT	10	35	30	15.9	3.5	5	5.4
SSV220M035RT	22	35	60	8.44	7.7	6.3	5.4
SSV330M035RT	33	35	84	5.62	11.5	8	6.2
SSV470M035RT	47	35	98	3.95	16.45	8	10.2
SSV101M035RT	100	35	160	1.85	35	10	10.2
SSVR01M050RT	0.1	50	1	1593	3	4	5.4
SSVR22M050RT	0.22	50	2	723	3	4	5.4
SSVR33M050RT	0.33	50	3	482	3	4	5.4
SSVR47M050RT	0.47	50	5	338	3	4	5.4
SSV1R0M050RT	1	50	10	159	3	4	5.4
SSV2R2M050RT	2.2	50	16	72.3	3	4	5.4
SSV3R3M050RT	3.3	50	16	48.2	3	4	5.4
SSV4R7M050RT	4.7	50	23	33.8	3	5	5.4
SSV100M050RT	10	50	35	15.9	3	6.3	5.4
SSV220M050RT	22	50	70	7.23	11	8	6.2
SSV330M050RT	33	50	91	4.82	16.5	8	10.2
SSV470M050RT	47	50	100	3.38	23.5	10	10.2



S SERIES

S U R F A C E

M O U N T

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C A P A C I T O R S

FEATURES

- General Purpose
- Low Profile Vertical Chip

APPLICATIONS

- DC to DC Converters
- On Board Power Supplies
- Switch Mode Power Supplies
- Blocking
- Bypass
- Decoupling
- Energy Storage



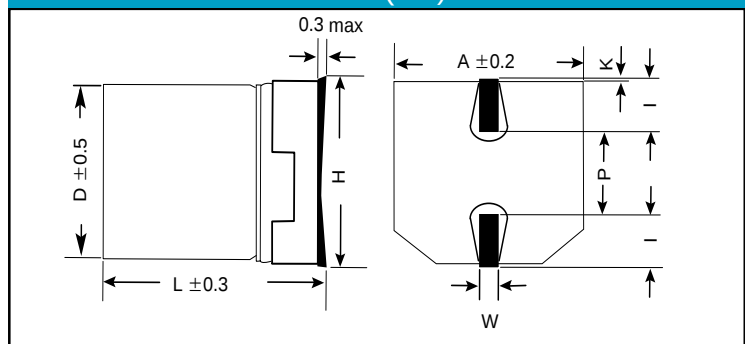
SPECIFICATIONS

D	L	A	H (Max)	I	W	P	K
4.0	5.4	4.3	5.5	1.8	0.65 ±0.1	1.0 ±0.2	0.35
5.0	5.4	5.3	6.5	2.2	0.65 ±0.1	1.5 ±0.2	0.35
6.3	5.4	6.6	7.8	2.6	0.65 ±0.1	1.8 ±0.2	0.35
8.0	6.2	8.3	9.5	3.4	0.65 ±0.1	2.2 ±0.2	0.35
8.0	10.2	8.3	10.0	3.4	0.90 ±0.2	3.1 ±0.2	0.70 ±0.2
10.0	10.2	10.3	12.0	3.5	0.90 ±0.2	4.6 ±0.2	0.70 ±0.2

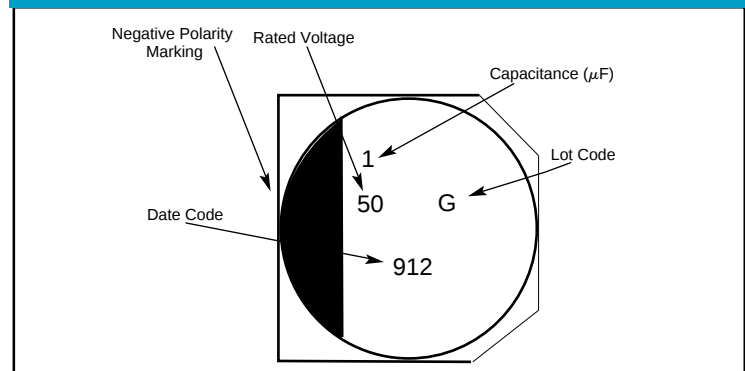
CROSS REFERENCE

Competitor	Competitor Series	NACC Series
BC	153CLV	SSV
CDE	AVS	SGV
CDE	AHA	SSV
Elna	RV2	SGV
Elna	RV3	SGV
Elna	RV4	SGV
Elna	RVS	SSV
Elna	RVL	SSV
Elna	RVJ	SSV
Illinois Cap	SML	SGV
Illinois Cap	SMH	SSV
Jaro	AC	SGV
Jaro	ACH	SSV
NIC	NACE	SGV
NIC	NACS	SGV
NIC	NACH	SSV
Nichicon	ZS	SGV
Nichicon	WX	SGV
Nichicon	WT	SSV
Panasonic	ECEV(A)S	SGV
Panasonic	EEV-HA	SSV
Rubycon	REV	SGV
Rubycon	RKV	SSV
UCC	MV	SGV
UCC	MVS	SGV
UCC	MVJ	SSV
UCC	MVK	SSV

OUTLINE DIMENSIONS (mm)



PART NUMBER MARKINGS





S SERIES

S U R F A C E

M O U N T

A L U M I N U M

C A P A C I T O R S

TAPE & REEL PACKAGING QUANTITY

Size	Quantity Per Reel	Box Packaging	Reel Size (mm)
3 X 5.4	2000	20000	380
4 X 5.4	2000	20000	380
5 X 5.4	1000	10000	380
6.3 X 5.4	1000	10000	380
8 X 6.2	1000	10000	380
8 X 10.2	500	3000	380
10 X 10.2	500	5000	380

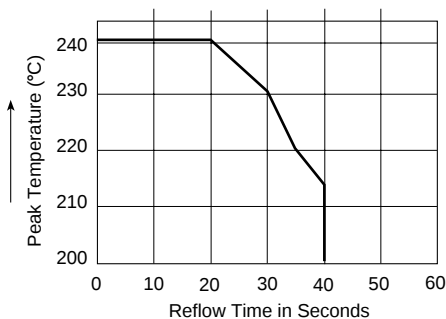


REFLOW SOLDERING

- For reflow, use a thermal conduction system such as infrared radiation. Vapor heat transfer systems are not recommended.
- Reflow should be performed one time only.
- Observe the proper soldering condition limits below. Do not exceed the specified limits.

REFLOW CONDITION LIMITS

Diameter 3mm ~ 6.3mm



Diameter 8mm ~ 10mm

