

SGV SERIES

UPGRADE

105°C Standard

- Load Life : 105°C 2000~5000 hours.
- AEC-Q200.
- High Temperature Reflow soldering is available. (JGV series)  
([http://www.rubycon.co.jp/catalog/j\\_pdfs/aluminum/j\\_JGV.pdf](http://www.rubycon.co.jp/catalog/j_pdfs/aluminum/j_JGV.pdf))



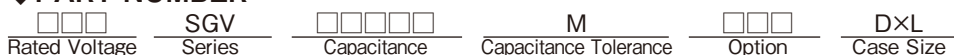
SPECIFICATIONS

Items	Characteristics																																						
Category Temperature Range	-55~+105°C	-40~+105°C	-25~+105°C																																				
Rated Voltage Range	6.3~50Vdc	63, 100Vdc	160~450Vdc																																				
Capacitance Tolerance	±20% (20°C, 120Hz)																																						
Leakage Current(MAX)	6.3~100Vdc		160~450Vdc																																				
	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)		I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)																																				
	I=Leakage Current(μA)    C=Capacitance(μF)    V=Rated Voltage(Vdc)																																						
Dissipation Factor(MAX) (tanδ)	<table border="1"> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>400</th> <th>450</th> </tr> <tr> <td>φ4,φ5,φ6.3×6.1</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>φ6.3×8,φ8~φ18</td> <td>0.35</td> <td>0.26</td> <td>0.24</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> <td>0.15</td> <td>0.20</td> <td>-</td> </tr> </table>			Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450	φ4,φ5,φ6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	-	-	-	-	-	φ6.3×8,φ8~φ18	0.35	0.26	0.24	0.18	0.14	0.12	0.12	0.10	0.15	0.20	-
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When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.																																							
Endurance	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements.																																						
	Capacitance Change	Within ±25% of the initial value.	Rated Voltage (Vdc)	Life Time (hrs)																																			
	Dissipation Factor	Not more than 200% of the specified value.	6.3~100	2000																																			
	Leakage Current	Not more than the specified value.	160~450	5000																																			
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>400</th> <th>450</th> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>6</td> <td>-</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>5</td> <td>5</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>			Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2	3	6	-	Z(-40°C)/Z(20°C)	8	8	4	4	3	3	5	5	-	-	-
	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450																											
Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2	3	6	-																												
Z(-40°C)/Z(20°C)	8	8	4	4	3	3	5	5	-	-	-																												
	(120Hz)																																						

MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k≦	
Coefficient	0.47~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~6.8μF	0.65	1.00	1.20	1.30	1.50
	10~68μF	0.80	1.00	1.20	1.30	1.50
	100~1000μF	0.80	1.00	1.10	1.15	1.20
	2200~6800μF	0.80	1.00	1.05	1.10	1.15

PART NUMBER



DIMENSIONS

(mm)

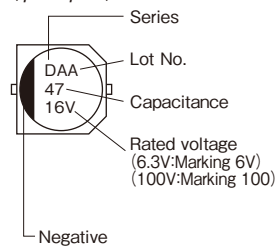
φD	L	A1	B1	C	W1	P	K	α
4	6.1	4.3	4.3	1.8	0.5~0.8	1.0	0.5 MAX	0
5	6.1	5.3	5.3	2.2	0.5~0.8	1.3	0.5 MAX	0
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5 MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5 MAX	※1
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5 MAX	※1
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5

※1: α dimensions

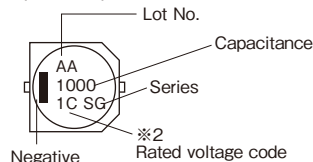
Rated Voltage	α
6.3~100	0
160~400	0.2

MARKING

〈φ4~φ10〉



〈φ12.5~φ18〉



※2 Voltage code

Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	450
Rated Voltage code	0J	1A	1C	1E	1V	1H	1J	2A	2C	2D	2E	2G	2W

**◆ STANDARD SIZE**

 Size  $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)

Vdc	Cap ( $\mu$ F)	Size ( $\phi$ DXL)	Ripple	Vdc	Cap ( $\mu$ F)	Size ( $\phi$ DXL)	Ripple	Vdc	Cap ( $\mu$ F)	Size ( $\phi$ DXL)	Ripple	
6.3	22	4×6.1	26	35	4.7	4×6.1	15	160	12	8×10.5	115	
	33	4×6.1	29		10	5×6.1	28		22	10×10.5	150	
	47	5×6.1	46		22	6.3×6.1	55		39	12.5×13.5	250	
	100	6.3×6.1	71		33	6.3×8	76		47	12.5×16	310	
	220	6.3×8	121			8×6.5	84		68	16×16.5	400	
	470	8×10.5	210		100	8×10.5	180		100	18×16.5	480	
	1000	10×10.5	495			10×10.5	305		120	16×21.5	560	
		12.5×13.5			220	10×10.5	450		150	18×21.5	690	
	2200	12.5×16	750			12.5×13.5			330	12.5×16	460	
	3300	16×21.5	930		470	16×16.5	490		200	10	8×10.5	100
4700				18×21.5	1200	1000	16×21.5	750		15	10×10.5	130
		18×16.5	33				12.5×13.5	230				
6800	18×21.5	1350	18×16.5	750	42	12.5×16	270					
10	33	5×6.1	43	50	0.47	4×6.1	4	250	6.8	8×10.5	85	
	100	6.3×6.1	71		1	4×6.1	8		12	10×10.5	115	
	330	8×10.5	195		2.2	4×6.1	11		22	12.5×13.5	190	
	470	8×10.5	210		3.3	4×6.1	14		33	12.5×16	240	
		10×10.5	440		4.7	5×6.1	19		47	16×16.5	320	
	1000	12.5×16	500		10	6.3×6.1	35		56	18×16.5	400	
	2200	16×16.5	810		22	6.3×8	67		68	18×16.5	440	
	3300	16×21.5	1000			8×6.5	70		100	16×21.5	500	
		18×16.5			33	8×10.5	140		120	18×21.5	620	
4700	18×21.5	1200	47	8×10.5	167	400	6.8	8×10.5	45			
16	10	4×6.1	28	63	100		10×10.5	180	4.7	10×10.5	75	
	22	5×6.1	39				8×10.5	230	10	12.5×13.5	135	
	47	6.3×6.1	70		220		10×10.5	315	12	12.5×16	165	
	100	6.3×8	111				12.5×16	380	18	16×16.5	220	
	220	8×10.5	185		330		16×16.5	470	22	18×16.5	280	
	330	8×10.5	290				470	16×21.5	550	33	16×21.5	320
		10×10.5	440		18×16.5			400				
	470	8×10.5	320		1000		18×21.5	820	47	18×21.5	400	
		10×10.5	460			100	22	8×10.5	55	450	6.8	12.5×13.5
	1000	16×16.5	630		33		8×10.5	115	8.2		12.5×16	150
2200	16×21.5	930	47	8×10.5	120		12	16×16.5	195			
	18×16.5		100	12.5×16	225		18	18×16.5	245			
3300	18×21.5	1150	220	16×16.5	385		22	16×21.5	275			
25	33	6.3×6.1	65	330	16×21.5		490	27	18×21.5	345		
	47	6.3×8	79		18×16.5			470	18×21.5	590	100	10
		8×6.5	91	470	18×21.5		590	22	10×10.5	90		
	100	8×10.5	180		10			8×10.5	65	33		10×10.5
	220	8×10.5	320	1000	10×10.5	355	47	12.5×13.5	160			
		10×10.5	450		100		16×16.5	285	220	16×21.5		440
	330	10×10.5	450	220	16×21.5	440	18×16.5	440				
		12.5×13.5			490		18×16.5	440				
	470	10×10.5	490	1000	18×16.5	440	100	16×21.5	285			
	1000	16×21.5	700		220	18×16.5		440	22	16×21.5		275
18×16.5		1050				27			18×21.5	345		
2200	18×21.5	1050	3300		18×21.5	1700		100	16×21.5	285		
3300	18×21.5	1700		18×21.5	1700	18×21.5			345			

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[400SGV2R7M8X10.5](#) [50SGV3R3M4X6.1](#) [6.3SGV1000M12.5X13.5](#) [200SGV15M10X10.5](#) [250SGV12M10X10.5](#)  
[250SGV33M12.5X16](#) [25SGV100M8X10.5](#) [35SGV1000M16X21.5](#) [35SGV22M6.3X6.1](#) [25SGV3300M18X21.5](#)  
[35SGV470M16X16.5](#) [35SGV4R7M4X6.1](#) [450SGV6R8M12.5X13.5](#) [63SGV220M16X16.5](#) [10SGV100M6.3X6.1](#)  
[100SGV22M10X10.5](#) [160SGV22M10X10.5](#) [16SGV330M10X10.5](#) [200SGV68M18X16.5](#) [25SGV220M10X10.5](#)  
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[50SGV22M8X6.5](#) [6.3SGV3300M16X21.5](#) [6.3SGV470M8X10.5](#) [63SGV330M16X21.5](#) [63SGV33M8X10.5](#)  
[6.3SGV6800M18X21.5](#) [6.3SGV47M5X6.1](#) [63SGV100M12.5X16](#) [50SGV0R47M4X6.1](#) [50SGV470M18X16.5](#)  
[50SGV47M10X10.5](#) [50SGV47M8X10.5](#) [50SGV4R7M5X6.1](#) [6.3SGV33M4X6.1](#) [25SGV2200M18X21.5](#)  
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[450SGV33M18X21.5](#) [50SGV1M4X6.1](#) [50SGV1000M18X21.5](#) [50SGV100M8X10.5](#) [50SGV330M16X16.5](#)  
[16SGV330M8X10.5](#) [50SGV2R2M4X6.1](#) [6.3SGV100M6.3X6.1](#) [63SGV330M18X16.5](#) [200SGV100M16X21.5](#)  
[250SGV6R8M8X10.5](#) [35SGV220M10X10.5](#) [6.3SGV4700M18X21.5](#) [63SGV470M18X21.5](#) [6.3SGV2200M12.5X16](#)  
[6.3SGV220M6.3X8](#) [6.3SGV22M4X6.1](#) [63SGV47M8X10.5](#) [16SGV470M8X10.5](#) [200SGV42M12.5X16](#)  
[25SGV33M6.3X6.1](#) [400SGV33M18X21.5](#) [450SGV18M18X16.5](#) [6.3SGV1000M10X10.5](#) [450SGV15M16X16.5](#)  
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[6.3SGV3300M18X16.5](#) [35SGV330M12.5X16](#) [25SGV470M10X10.5](#) [200SGV33M12.5X13.5](#) [200SGV56M16X16.5](#)  
[250SGV22M12.5X13.5](#) [25SGV1000M18X16.5](#) [250SGV100M18X21.5](#) [25SGV47M8X6.5](#) [16SGV1000M16X16.5](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

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