

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))



RoHS compliance



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	-
	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160~250	400	450																											
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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	-																												
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

□□□ / SGV / □□□□□ / M / □□□ / D×L  
 Rated Voltage    Series    Capacitance    Capacitance Tolerance    Option    Case Size

DIMENSIONS

(mm)

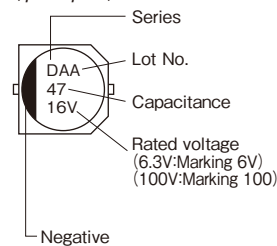
φD	L	A1	B1	C	W1	P	K	α
4	6.1	4.3	4.3	1.8	0.5~0.8	1.0	0.5 MAX	0
5	6.1	5.3	5.3	2.2	0.5~0.8	1.3	0.5 MAX	0
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5 MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5 MAX	※1
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5 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	
18×16.5		1000		16×21.5	750	15	10×10.5	130					
4700	18×21.5		1200	18×16.5		1000	33	12.5×13.5	230				
6800	18×21.5	1350	18×16.5	18×16.5	470	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			470	8×10.5	140		120	18×21.5	620		
	4700	18×21.5	1200			8×10.5	167		400	6.8	8×10.5	85	
16	10	4×6.1	28	10×10.5	180	12	10×10.5	115					
	22	5×6.1	39	100	8×10.5	230	22	12.5×13.5		190			
	47	6.3×6.1	70		10×10.5	315	33	12.5×16		240			
	100	6.3×8	111	220	12.5×16	380	47	16×16.5		320			
	220	8×10.5	185	330	16×16.5	470	56	18×16.5		400			
	330	8×10.5	290	470	16×21.5	550	68	16×21.5		450			
		10×10.5	440		1000		18×16.5	820		100	18×21.5	560	
	470	8×10.5	320	63	22	8×10.5	55	450		2.7	8×10.5	45	
		10×10.5	460		33	8×10.5	115			4.7	10×10.5	75	
	1000	16×16.5	630		47	8×10.5	120		10	12.5×13.5	135		
2200	16×21.5	930	100		12.5×16	225	12		12.5×16	165			
	18×16.5		330		220	16×16.5	385		18	16×16.5	220		
3300	18×21.5	1150			470	16×21.5	490		22	18×16.5	280		
	18×21.5		18×21.5			590			33	16×21.5	320		
25	33	6.3×6.1	65		100	10	8×10.5		65	450	6.8	12.5×13.5	110
	47	6.3×8	79			22	10×10.5		90		8.2	12.5×16	150
		8×6.5	91			33	10×10.5		135		12	16×16.5	195
	100	8×10.5	180	47		12.5×13.5	160	18	18×16.5		245		
	220	8×10.5	320	100		16×16.5	285	22	16×21.5		275		
		10×10.5	355			220	16×21.5	440	27		18×21.5	345	
	330	10×10.5	450	18×16.5			470		18×21.5		590	22	16×21.5
		12.5×13.5		470		10×10.5	490	18×21.5	590		27	18×21.5	345
	470	10×10.5	490			10	8×10.5	65	22		16×21.5	275	
	1000	16×21.5	700	22		10×10.5	90	33	10×10.5		135		
18×16.5		2200		47	12.5×13.5	160	47	18×21.5	400				
2200	18×21.5		1050	100	16×16.5	285	6.8	12.5×13.5	110				
3300	18×21.5	1700	220	18×16.5	440	8.2	12.5×16	150					

# Mouser Electronics

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## Rubycon:

[100SGV33M10X10.5](#) [100SGV47M12.5X13.5](#) [160SGV120M16X21.5](#) [10SGV330M8X10.5](#) [35SGV33M6.3X8](#)  
[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](#)  
[25SGV220M8X10.5](#) [63SGV22M8X10.5](#) [35SGV100M10X10.5](#) [35SGV10M5X6.1](#) [50SGV220M12.5X16](#)  
[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](#)  
[160SGV150M18X21.5](#) [160SGV39M12.5X13.5](#) [400SGV47M18X21.5](#) [35SGV33M8X6.5](#) [400SGV4R7M10X10.5](#)  
[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](#)  
[35SGV1000M18X16.5](#) [35SGV100M8X10.5](#) [400SGV15M12.5X16](#) [450SGV10M12.5X16](#) [50SGV22M6.3X8](#)  
[400SGV27M18X16.5](#) [50SGV100M10X10.5](#) [50SGV10M6.3X6.1](#) [400SGV10M12.5X13.5](#) [400SGV22M16X16.5](#)  
[35SGV220M12.5X13.5](#) [50SGV33M8X10.5](#) [50SGV470M16X21.5](#) [400SGV33M16X21.5](#) [450SGV22M16X21.5](#)  
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[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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