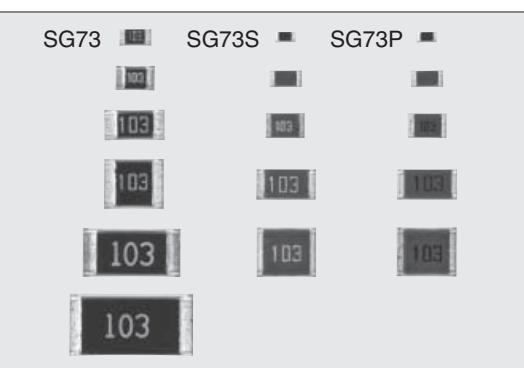


THICK FILM (RESISTANT TO SURGE)



SG73•SG73S•SG73P 矩形浪涌片式电阻器



外观颜色: 深红色 (SG73), 黑色 (SG73S、SG73P 1E)

绿色 (SG73S, SG73P, 1J, 2A, 2B, 2E)

Coating color: Wine red (SG73), Black (SG73S, SG73P 1E)

Green (SG73S, SG73P 1J, 2A, 2B, 2E)

■ 特点 Features

- 和片状电阻 (RK73) 比较, 它的耐浪涌电压和脉冲电压优异。
- SG73S (用于浪涌) 和 SG73P (用于脉冲) 可以选择 $\pm 0.5\%$ 的阻值允许偏差。
- 对应回流焊、波峰焊。
- 端子无铅电镀品, 符合欧盟RoHS。电极、电阻膜层、玻璃中所含的铅玻璃不适用欧盟RoHS指令。
- AEC-Q200相关数据已取得。
- Superior to RK73 series chip resistors in surge withstanding voltage and pulse withstanding voltage.
- SG73S (for surge) and SG73P (for pulse) are able to select resistance tolerance from $\pm 0.5\%$.
- Suitable for both reflow and flow solderings.
- Products with lead free termination meet EU-RoHS requirements. EU-RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 qualified.

■ 用途 Applications

- 发动机操作装置。
- 感应电闪电路。
- E.C.U.
- Circuits to catch inductive lighting surge.

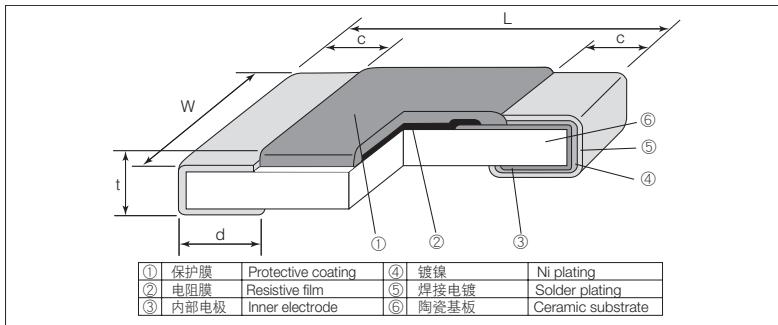
■ 参考标准 Reference Standards

IEC 60115-8

JIS C 5201-8

EIAJ RC-2134C

■ 结构图 Construction



■ 外形尺寸 Dimensions

型号 Type (Inch Size Code)	尺寸 Dimensions (mm)					重量(g) (1000pcs)
	L	W	c	d	t	
SG73 1J (0603)	1.6 \pm 0.2	0.8 \pm 0.1	0.3 \pm 0.1	0.3 \pm 0.1	0.45 \pm 0.1	2.14
SG73 2A (0805)	2.0 \pm 0.2	1.25 \pm 0.1	0.4 \pm 0.2	0.3 $^{+0.1}_{-0.1}$	0.5 \pm 0.1	4.54
SG73 2B (1206)	3.2 \pm 0.2	1.6 \pm 0.2	0.5 \pm 0.3	0.4 $^{+0.1}_{-0.1}$	0.6 \pm 0.1	9.14
SG73 2E (1210)		2.6 \pm 0.2				15.50
SG73 W2H ^{※1} (2010)	5.0 \pm 0.2	2.5 \pm 0.2	3.1 \pm 0.2	0.65 \pm 0.15	24.30	24.30
SG73 W3A ^{※1} (2512)	6.3 \pm 0.2	3.1 \pm 0.2				37.10
SG73S1E, SG73P1E (0402)	1.0 $^{+0.1}_{-0.1}$	0.5 \pm 0.05	0.15 \pm 0.1	0.25 $^{+0.05}_{-0.05}$	0.35 \pm 0.05	0.68
SG73S1J, SG73P1J (0603)	1.6 \pm 0.2	0.8 \pm 0.1	0.3 \pm 0.1	0.3 \pm 0.1	0.45 \pm 0.1	2.14
SG73S2A, SG73P2A (0805)	2.0 \pm 0.2	1.25 \pm 0.1	0.3 $^{+0.1}_{-0.1}$	0.3 $^{+0.1}_{-0.1}$	0.5 \pm 0.1	4.54
SG73S2B, SG73P2B (1206)	3.2 \pm 0.2	1.6 \pm 0.2	0.4 $^{+0.1}_{-0.1}$	0.4 $^{+0.1}_{-0.1}$	0.6 \pm 0.1	9.14
SG73S2E, SG73P2E (1210)		2.6 \pm 0.2				15.50

*1 SG73 2H 和 SG73 3A 可以对应 (“d” 尺寸不同。“d” 尺寸 = 0.4 $^{+0.2}_{-0.1}$ mm)

*1 SG73 2H 和 SG73 3A 也还是可用的 (不同的 “d” 尺寸 = 0.4 $^{+0.2}_{-0.1}$ mm)

■ 品名构成 Type Designation

实例 Example

SG73	2A	T	TD	103	K
品种 Product Code	额定功率 Power Rating	端子表面材质 Terminal Surface Material	二次加工 Taping	公称电阻值 Nominal Resistance	阻值允许偏差 Resistance Tolerance
SG73 SG73S SG73P	SG73	T: Sn (L: Sn/Pb ^{※2})	TP: 2mm pitch punch paper TD: 4mm pitch punch paper TE: 4mm pitch plastic embossed BK: Bulk	D,F: 4 digits G,J,K,M: 3 digits	D: $\pm 0.5\%$ F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$ M: $\pm 20\%$
SG73S SG73P	SG73S SG73P	1E: 0.125W 1J: 0.2W 2A: 0.25W 2B: 0.33W 2E: 0.5W			

*2 SG73 3W2H, W3A, SG73P 和 SG73S, 端子表面材质只有T标记对应。

*2 With SG73 2W, W3A, SG73P and SG73S, only the symbol T is available as the terminal surface material.

端子表面材质, 以无铅品为准。

欲知关于此产品含有的环境负荷物质详情 (除EU-RoHS以外), 请与我们联系。

编带细节请参考卷末附录C。

The terminal surface material lead free is standard.

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.

For further information on taping, please refer to APPENDIX C on the back pages.

■ 额定值 Ratings

型 号 Type	额定功率 Power Rating	电阻温度系数 T.C.R. ($\times 10^{-3}$ /K)	电阻值范围 Resistance Range (Ω)		最高使用电压 Max. Working Voltage	最高过载电压 Max. Overload Voltage	额定环境温度 Rated Ambient Temp.	额定端子部温度 Rated Terminal Part Temp.	二次加工和包装数量/卷 Packaging & Qty/Reel (pcs)			
			D: $\pm 0.5\%$ E24 • E96	F: $\pm 1\%$ E24 • E96					TP	TD	TE	
SG73 1J	0.1W	± 400 ± 200	—	—	1~8.2 10~1M	50V	100V	70°C	10,000	5,000	—	
SG73 2A	0.125W	± 400 ± 200			1~8.2 10~1M	150V	200V		10,000	5,000	4,000	
SG73 2B	0.25W (0.33W ^{※4})	± 400 ± 200			1~8.2 10~1M	200V	400V		—	5,000	4,000	
SG73 2E	0.33W	± 400 ± 200			1~8.2 10~1M				—	5,000	4,000	
SG73 W2H	0.75W	± 400 ± 200	10~1M	1~10M	1~8.2 10~1M		125°C	—	—	4,000		
SG73 W3A	1.0W	± 400 ± 200			1~8.2 10~1M			—	—	4,000		
SG73S 1E SG73P 1E	0.125W (0.2W ^{※4})	± 200	10~1M	1~10M	—	50V	100V	85°C 95°C 100°C 110°C	10,000	—	—	
SG73S 1J SG73P 1J	0.2W (0.25W ^{※4})	± 100 ^{※3}				150V ^(※4)	200V ^(※4)		10,000	5,000	—	
SG73S 2A SG73P 2A	0.25W (0.33W ^{※4})	± 200				200V	400V		10,000	5,000	4,000	
SG73S 2B SG73P 2B	0.33W (0.5W ^{※4})	± 200				200V	400V		—	5,000	4,000	
SG73S 2E SG73P 2E	0.5W	± 200	± 200	± 200	± 200	50V ^(※4)	100V ^(※4)	70°C 200V	10,000	5,000	4,000	
SG73S 2F SG73P 2F	0.5W	± 200							—	—	4,000	

*3 SG73P/S 1J的Cold T.C.R.是 $\pm 150 \times 10^{-6}/K$ 。

*3 Cold T.C.R. of SG73P/S 1J is $\pm 150 \times 10^{-6}/K$.

*4 关于 () 内的额定功率、最高使用电压、最高过载电压, 请您咨询。

*4 Please consult with us about the power rating, the Max. working voltage and the Max. overload voltage with ().

使用温度范围 Operating Temperature Range: -55°C ~ +155°C

额定电压是 $\sqrt{\text{额定功率} \times \text{公称电阻值}}$ 所算出的值或表中最高使用电压两者中小的值为额定电压。

Rated voltage = $\sqrt{\text{Power Rating} \times \text{Resistance value or Max. working voltage}}$, whichever is lower.

Mar. 2015

本样本手册中记载的产品规格如有变更, 恕不一一奉告。订购以及使用之前, 请仔细确认规格表的内容。

用于车载设备、医疗设备、航空设备以及其他涉及人身安全、或可能引起重大损失的设备上时, 请务必事先与我公司联系。这些产品在这些类用途中出现故障或失灵可能导致人身事故或严重损坏。

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

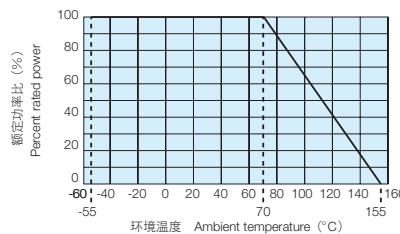
Contact our sales representatives before you use our products for applications including automotive, medical equipment and aerospace equipment.

Malfuction or failure of the products in such applications may cause loss of human life or serious damage.

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■ 负荷减轻特性曲线 Derating Curve

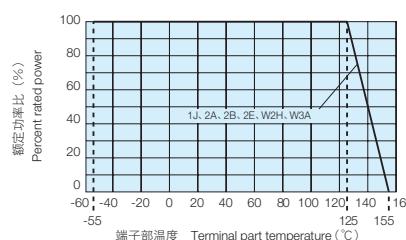
环境温度 Ambient temperature
(SG73/SG73P/SG73S)



在环境温度70°C以上使用时，应按照上图负荷减轻特性曲线，减小额定功率。

For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the left derating curve.

端子部温度 Terminal part temperature
(SG73)



(SG73P/SG73S)

