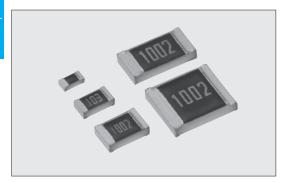


RN73H 矩形金属膜片式电阻器(高可靠性)



外观颜色: 黑色 Coating color: Black

■ 特点 Features

- ●贴片金属膜电阻器
- 也标准对应高精度的阻值允许偏差±0.05%。
- 也标准对应局精度的阻值允许偏差±0.05%。 也标准对应高精度的电阻温度系数±5×10⁶/K。 电流噪声低。 使用温度范围~155℃。额定环境温度:85℃。 用特殊防护涂层提高耐湿性。 适合于各种工业设备中的控制线路。 对应回流焊,波峰焊。 符合欧盟RoHS。 AEC-Q200相关数据已取得。 SMD metal film resistors

- SMD metal film resistors.

 High precision type $\pm 0.05\%$ is available with standard products.

 High performance T.C.R. $\pm 5 \times 10^{-6}$ /K is available.
- Low current noise.
- Operating temperature range ~ 155 °C
 - Rated ambient temperature: 85°C
- Improved moisture resistance by special protective coating.
- Suitable for control circuits in various industrial equipment.
 Suitable for both flow and reflow solderings.
 Products meet EU-RoHS requirements.

- AEC-Q200 qualified.

■用途 Applications

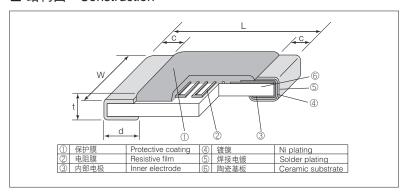
●汽车电子装置 Car electronics ●工业设备 ●医疗设备 Industrial equipment Medical equipment

■ 参考标准 Reference Standards

IEC 60115-8 JIS C 5201-8 EIAJ RC-2133A

■ 额定值 Ratings

■ 结构图 Construction



■ 外形尺寸 **Dimensions**

型号 Type		Weight (g)				
(Inch Size Code)	L	W	С	d	t	(1000pcs)
1E (0402)	1.0 +0.1 -0.05	0.5±0.05	0.25±0.10	0.25 +0.05	0.35±0.05	0.68
1J (0603)	1.6±0.2	0.8 ± 0.1	0.3 ± 0.1	0.3 ± 0.1	0.45±0.1	2.14
2A (0805)	2.0±0.2	1.25±0.2	0.4±0.2	0.3 +0.2	0.5±0.1	4.54
2B (1206)	3.2±0.2	1.6±0.2	0.5±0.3	0.4 +0.2	0.6±0.1	9.14
2E (1210)	3.2±0.2	2.5±0.2	0.5±0.3	U.4 _{-0.1}	0.6 ± 0.1	14.5

■ 品名构成 Type Designation

实例 Example

24123	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
RN73H	2B	T	TD	1002	В	25
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	电阻温度系数 T.C.R. (×10 ⁻⁶ /K)
	1E:0.063W 1J:0.1W 2A:0.125W 2B:0.25W 2E:0.25W	T:Sn G:Au*1	TP:2mm pitch punch paper TD:4mm pitch paper TE:4mm pitch plastic embossed BK:Bulk	4 digits	A:±0.05% B:±0.1% C:±0.25% D:±0.5% F:±1%	05 10 25 50 100

※1 镀金电极品以IE、1J对应。由于规格不同,请与本公司咨询。

%1 Products with gold plated electrodes are also available with 1E and 1J type, so please consult with us. 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。

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.

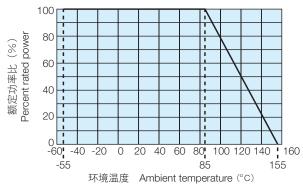
型 号 Type	额定功率 Power Rating	额定环境温度 Rated Ambient	额定端子部温度 Rated Terminal Part Temp.	电阻温度 系数 T.C.R.	电阻值范围 Resistance Range(Ω) E24 • E96 • E192			最高使用电压 Max. Working Voltage		编带和包装数/卷 Taping & Q'ty/Reel(pcs)				
	nating	Temp.	rait lellip.	(×10 ⁻⁶ /K)	A:±0.05%	B:±0.1%	C:±0.25%	D:±0.5%	F:±1%	vollage	voltage	TP	TD	TE
		1	±10	-	47~10k	47~10k	47~10k	47~10k						
1E	0.063W	85°C	90℃	±25	_	47~300k	47~300k	47~300k	47~300k	50V	100V	10,000	-	_
				±50	-	47~300k	47~300k	10~300k	10~300k					
	1			±5	100∼59k	100∼59k	_	_	-	75V	150V	_	5,000	_
			95℃	±10	47~59k	47~360k	47~360k	47~360k	47~360k					
1J	0.1W	85°C		±25	47~59k	15∼1M	15∼1M	10~1M	10~1M					
			±50	-	15~1M	15∼1M	10∼1M	10∼1M		ı .			1	
				±100	_	_	_	10∼1M	10∼1M	i İ		ı	.	ıİ
	2A 0.125W 85℃		±5	100~100k	100~100k	_	_	-						
				±10	47~100k	47~1M	47~1M	47~1M	47~1M				. !	
2A		100°C	±25	47~100k	15~1.5M	15~1.5M	10∼1.5M	10~1.5M		300V	_	5,000	4,000	
			±50	-	15~1.5M	15~1.5M	10∼1.5M	10∼1.5M						
				±100	-	_	-	10∼1.5M	10~1.5M					ı
	2B 0.25W 85℃		±5	100~300k	100~300k	-	-	-						
			0 110℃	±10	47~300k	47~1M	47~1M	47~1M	47~1M	200V	400V	_	5,000	4,000
2B		85°C		±25	47~300k	15~1M	15~1M	10~1M	10∼1M					
			±50	-	15~1M	15∼1M	10∼1M	10∼1M						
			±100	_	_	_	10~1M	10~1M						
	2E 0.25W 85℃		±10			100~510k	100~510k	100~510k						
25		95℃ 110	110°C	±25	51~510k	15~1M	15~1M	10~1M	10~1M	200V	400V		5,000	4,000
25		03 0	1100	±50	_	15~1M	15~1M	10∼1M	10∼1M			_	3,000	
			±100	-	-	-	10∼1M	10~1M	1	l i				

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

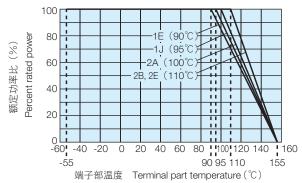
無定电压是√额定<u>可率×公</u>称电<u>阻值所算出的值</u>或表中最高使用电压两者中小的值为额定电压。
Rated voltage = √Power Rating×Resistance value or Max. working voltage, whichever is lower.
根据客户的使用状况,如果不清楚是该使用额定环境温度还是额定端子部温度,请以额定端子部温度为优先。
详情请参照14~17页的 "端子部温度负荷特性曲线的说明"。
If any questions arise whether to use the "Rated Ambient Temperature" or the "Rated Terminal Part Temperature" in your usage conditions, please give priority to the "Rated Terminal Part Temperature" For more details, please refer to "Introduction of the derating curves based on the terminal part temperature" in page 14 to 17.



■ 负荷减轻特性曲线 Derating Curve



在环境温度85℃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 85°C or above, a power rating shall be derated in accordance with the above derating curve.



超过上述端子部温度使用时,请根据负荷减轻特性曲线减小额定功率后使用。 ※ 关于使用方法,请参照卷首的"端子部温度负荷减轻特性曲线的说明"。 For resistors operated terminal part temperature of described for each size or above, a power rating shall be derated in accordance with derating curve. *Please refer to "Introduction of the derating curves based on the terminal part temperature" on the beginning of our catalog before use.

■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements ΔR± (%+0.05 Ω)	8	试验方法 Test Methods			
iest items	保证值 Limit	代表值 Typical				
电阻值 Resistance	在规定的允许偏差内 Within specified tolerance	-	25°C			
电阻温度系数 T.C.R.	在规定值以内 Within specified T.C.R.	-	+25°C/+125°C : T.C.R.=±5(×10°/K) +25°C/-55°C and +25°C/+155°C : another			
过载(短时间) Overload(Short time)	0.05	0.01	额定电压×2.5倍或最高过载电压中低的一方施加5秒钟 Rated voltage ×2.5 or Max. overload vol., whichever is less, for 5s			
耐焊接热 Resistance to soldering heat	0.05 ^{**2}	0.01	260°C±5°C, 10s±1s			
温度突变 Rapid change of temperature	0.1 ^{**2}	0.02	1E, 1J, 2A: -55°C (30min.) /+155°C (30min.) 1000 cycles 2B, 2E: -55°C (30min.) /+155°C (30min.) 500 cycles			
耐湿负荷 Moisture resistance	0.1 ^{**2}	0.05	85℃±2℃, 85%±5%RH, 1000h 1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle			
在85℃时的耐久性 Endurance at 85℃	0.1	0.03	85℃±2℃, 3000h 1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle			
高温放置 High temperature exposure	0.1 ^{**2}	0.05	+155°C, 1000h			

※2 保证值因阻值的不同而改变

%2 Depends on resistance value

■ 使用注意事项 Precautions for Use

- 部件的编带材料使用的是采取合适的防静电措施的物质,但在实际情况下,有过度干燥状态的情况,以及编带包装后施加了长时间振动后,项带 上产品吸附了静电,产生装载不良、部件受到静电(人体模型100pF,1.5kΩ, 超过1KV: 1J, 2A, 2B, 2E, 超过0.5kV: 1E) 破坏,电阻值有发生变 化的危险,要注意。
- 在本产品和安装的印刷电路板上,附着了助焊剂和人的汗和唾液等离子性杂质时,耐湿性,耐腐蚀性等方面会变得不理想。产品被助焊剂中含有 的氯和酸,人的汗,唾液中含有的纳,氯等离子污染时,已证实会引起电蚀。特别是使用无助焊剂时,由于湿润性的提高,会含有大量离子性物 质,所以使用RMA系的焊锡或助焊剂时,请进行充分清洗。并且,涂上防湿涂层材料时,在产品和防湿涂层之间残留了上述杂志时,会引起进一 步电蚀, 因此, 请在涂防湿材料前清洗。
- 贴装时,芯片电阻器上贴有耐热屏蔽胶带,如果撕下胶带,上部电极可能被剥离。已证实,由于暴露在高温下安装附着力变得更加牢固。因此, 请尽量避免使用或使用时确保胶带粘合剂不会直接与产品接触。
 - 此外,如进行高压冲淋清洗,水压应力可能导致上部电极剥离。因此,请尽量避免使用或事先评估后再使用。
- The properly and electrostatically measured taping materials are used for the components, but attention should be paid to the fact that there is some danger the parts absorb on the toptapes to cause a failure in the mounting and the parts are destructed by static electricity (1J, 2A, 2B, 2E: 1kV and more, 1E: 0.5kV and more at Human Body Model 100pF, $1.5k\Omega$) to change theresistance in the conditions of an excessive dryness or after the parts are given vibration for a long time as they are packaged on the tapes. Similarly, care should be given not to apply theexcessive static electricity when mounting on the boards.
- Ionic impurities such as flux etc. that are attached to these products or those mounted onto a PCB, negatively affect their moisture resistance, corrosion resistance, etc. The flux maycontain ionic substances like chlorine, acid, etc. while perspiration and saliva include ionic impurities like sodium (Na⁺), chlorine (Cl⁻) etc. Therefore these kinds of ionic substances mayinduce electrical corrosion when they invade into the products. Either thorough washing or using RMA solder and flux are necessary since lead free solder contains ionic substances. Washing process is needed, before putting on moisture proof material in order to prevent electrical corrosion.
- When heat-resistant masking tapes are attached to the chip resistors at the time of mounting and then detached, there is a possibility of exfoliation of the top electrodes. It is known that the heat applied in the mounting process will enhance the adhesion strength of the tape adhesive so please avoid the use. If the use of masking tapes are unavoidable, then please be sure not to attach the tape adhesives directly on the products.
- When high-pressure shower cleaning is implemented, there is a possibility of exfoliation of the top electrodes caused by the water pressure stress so please avoid the implementation.

If the implementation is unavoidable, then please evaluate the products beforehand.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Thin Film Resistors - SMD category:

Click to view products by KOA Speer manufacturer:

Other Similar products are found below:

```
M55342K06B34E0RT3 D55342E07B379BR-TR AR02BTC1872 AR02BTC18R7 AR02BTC3830 AR02BTC4220 AR02BTC4222

AR02BTC5100 AR02BTC5111 AR02BTC5762 AR02BTC8251 AR02BTC8452 AR03BTC0110 AR03BTC0120 AR03BTC0330

AR03BTC0390 AR03BTC1102 AR03BTC1103 AR03BTC1201 AR03BTC2000 AR03BTC2201 AR03BTC2203 AR03BTC2490

AR03BTC3003 AR03BTC4220 AR03BTC4223N AR03BTC5602 AR03BTC5603 AR03BTC5900 AR03BTC6802 AR03BTC7500

AR03BTC9100 AR03BTC9103 AR03BTC9760 AR05BTC0280 AR05BTC1000 AR05BTC1100 AR05BTC1201 AR05BTC1202

AR05BTC1300 AR05BTC14R3 AR05BTC1500 AR05BTC1523 AR05BTC1620 AR05BTC1622 AR05BTC1623 AR05BTC1760

AR05BTC1800 AR05BTC1823 AR05BTC1871
```