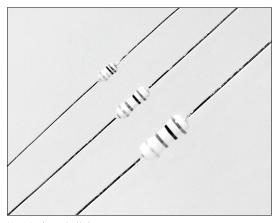
METAL FILM (FLAME RETARDANT)



SNF I 涂层绝缘型金属膜固定电阻器 Coat-Insulated Metal Film Fixed Resistors



外观颜色:亮蓝色 Coating color: Light blue 表示:彩色码,四色线

Marking: Color code: 4 color-bands

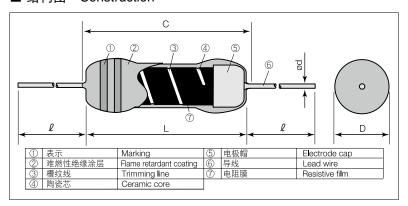
■ 特点 Features

- 是难燃性涂层。
- 可用于自动插装机。
- ●可进行各种成形。
- ●对应欧盟RoHS。
- Flame retardant coating.
- Automatic insertion is applicable.
- Various types of formings are available.
- Products meet EU-RoHS requirements.

■ 参考规格 Reference Standards

IEC 60115-1 JIS C 5201-1

■ 结构图 Construction



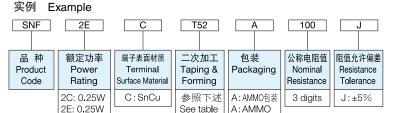
■ 外形尺寸 Dimensions

ĺ	型 号		M(=:==== (=)					
	型写 Type	L	C Max.	D	d (Nominal)	ℓ *3		Weight (g) (1000pcs)
			O IVIAX.			Standard	Long	(1000pcs)
	SNF2C	3.2±0.2	3.4	1.7±0.3	0.45	1.4Min ×1	20Min.*2	150
	SNF2E	6.1±0.5	7.1	2.3 ± 0.3	0.6	14IVIII1.^1	ZUIVIII I. AZ	240
ĺ	SNF2H	9.0±1.0	11.0	3.5±0.5	0.7	20 Min.	-	520

- ※1 成型编码S可以对应盒装。 ※3 引线长度按照成型和编带而改变。
- *X1 Forming code S is applied for bulk type. *X3 Lead length changes depending on taping and forming type.
- ※2 Long对应定制产品。
- ※2 Long type is custom-made.

■ 品名构成 Type Designation

2H: 0.5W



预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.

below

R:卷 R:REEL

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

■ 二次加工对应表 Taping & Forming Matrix

型号		编带 「aping	M成形 M Forming				
Type	T26	T52	M5	M10	M12.5	M15	
SNF2CC	0	0	M5F	=	П	=	
SNF2EC	0	0	-	M10F	M12.5R	=	
SNF2HC	=	0	=	=	M12.5K	M15K	

■ 额定值 Ratings

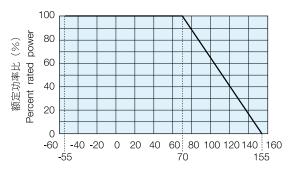
型 号	额定功率 Power Rating	电阻值范围(Ω) Resistance Range J:±5% E24	电阻温度系数 T.C.R. (×10 ⁻⁶ /K)	最高使用电压 Max. Working Voltage	最高过载电压 Max. Overload Voltage	耐电压 Dielectric Withstanding Voltage	额定环境温度 Rated Ambient Temperature	使用温度范围 Operating Temp. Range	编带和包装数/AMMO包装 Taping & Q'ty/AMMO (pcs)	
Type									T26A	T52A
SNF2CC	0.25W 0.5W	0.47~9.1	+350~-400	1.5V	3.7V	300V	+70℃	-55°C∼+155°C	3,000	3,000
SNF2EC		0.47~100		5.0V	12.5V	500V			2,000	2,000
SNF2HC		0.47~100		7.0V	17.5V	700V			-	2,000

额定电压是√额定功率×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.



■ 负荷特性曲线 **Derating Curve**



环境温度 Ambient temperature (℃)

在环境温度70℃以上使用时,应按照左图负荷特性曲线,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.

■ 性能 Performance

试验项目	标准值 Performance Requirements ΔR±(%+0.05 Ω)		试验方法 Test Methods		
Test 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.	-	室温/ 上升100℃ Room temperature+100℃		
过载(短时间) Overload(Short time)	1	0.5	额定电压×2.5倍或者最高过载电压、取两者中低的一方施加5秒 Rated voltage×2.5 or Max. overload vol., whichever is lower, for 5s.		
耐焊接热 Resistance to soldering heat	1	0.5	260°C±5°C, 10s±1s		
端子强度 Terminal strength	不应出现导线外露,端子松弛的情况 No lead-coming off and loose terminals	-	Twist 360°, 5 times		
温度突变 Rapid change of temperature	1	0.5	-55°C (30min.) /+125°C (30min.) 5 cycles		
耐湿负荷 Moisture resistance	5	2.5	40℃±2℃, 90%~95%RH, 1000h 1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle		
在70℃时的耐久性 Endurance at 70℃	3	1.5	70℃±2℃, 1000h 1.5小时ON、0.5小时OFF的周期 1.5h ON/0.5h OFF cycle		
耐溶剂性 Resistance to solvent	外观无异常,标识可以容易地判读 No abnormality in appearance. Marking shall be easily legible.	-	进行2分钟的异丙醇超声波清洗 Ultrasonic washing with Isopropyl alcohol for 2 min. 输出功率 Power: 0.3W/cm², 频率 f: 28kHz, 温度 Temp: 35℃±5℃		
阻燃性 Flame retardant	应当不会燃烧也不会自燃 No evidence of flaming or self- flaming.	_	耐火性: 将本产品在试验中燃烧15秒,取出15秒,循环5次 Flame test: The test flame shall be applied and removed for each 15s respectively to repeat the cycle 5 times. 过载阻燃性: 使用相当于额定功率的2倍, 4倍, 8倍, 16倍, 32倍的功 率(AC),各施加在本产品上1分钟,每次直至断路。 但是,请勿施加最高使用电压4倍以上的电压。 Overload flame retardant: Power (AC) corresponding to 2, 4, 8, 16 and 32 times the power rating shall be applied for each 1min. until disconnection occurs. However the applied voltage shall not exceed 4 times the maximum operating voltage.		

■ 使用注意事项 Precautions for Use

- 焊剂等在本产品和安装的印刷电路板上附着离子性杂质时,其耐湿性·耐腐蚀性将受到影响。焊剂内有时含有氯·酸等离子性物质,为除去这些离 子性物质应进行清洗。特别是使用无铅焊剂时,由于湿润性提高了,有时会含有大量离子性物质,所以在使用RMA系的焊锡或焊剂时,应充分进 行清洗。并且,保管环境和安装条件、环境等,附着了汗•盐等离子性物质时,其耐湿性•耐腐蚀性也将受到影响。对于这种污染,为了除去这些 离子性物质,应当进行清洗。
- 外装涂层是难燃性特殊涂料,由于对外部冲击比较弱,所以在使用时请注意。请进行最小限度的清洗。刚刚清洗好以后的涂层比较薄弱,在产品 完全干燥之前,请勿对涂层施加外力。产品干燥后,涂层将恢复在使用时原有强度,请注意在洗净后的20分钟内,勿对电阻器的涂层施加外力。 特别是,请勿将PCB板堆放起来。
- 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 may contain ionic substances like chlorine, acid, etc. Please wash them to get rid of these ionic substances especially when using leadfree solder that may contain much of the said substances for improving a wetting characteristic. Using RMA solder or RMA flux, or well-washing is needed. Also, attaching ionic substances such as perspiration, salt etc. by storage environments or mounting conditions/environments negatively affects their moisture resistance, corrosion resistance etc. Please wash them to remove the ionic substances when they are polluted.
- Be careful to handle these resistors because outer coatings are comparatively weak to outer shock due to flameproof special coats. Please wash them to a minimum. No external force is given to the coating films until they are well dried because the coating films become weaker right after washing. The original strength will be returned after they are dried, so please pay attention not to apply any external force onto the coating film of resistors for 20 minutes after drying. Especially no PC boards shall be piled up.