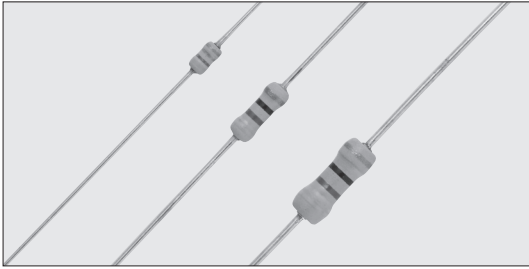
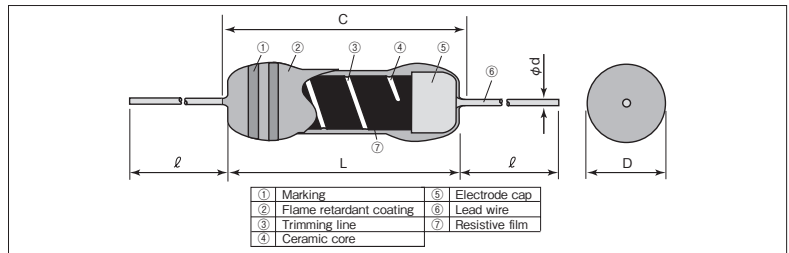


## SNF Coat-Insulated Metal Film Fixed Resistors



Coating color : Light blue  
 Marking : Color code : 4 color-bands

### Construction



### Features

- Flame retardant coating.  
(Equivalent to UL94 V-0)
- Automatic insertion is applicable.
- Various types of formings are available.
- Products meet EU-RoHS requirements.

### Reference Standards

IEC 60115-1  
 JIS C 5201-1

### Dimensions

Type	Dimensions (mm)				Weight (g) (1000pcs)		
	L	C Max.	D	d (Nominal)	Standard	Long	
SNF2C	3.2±0.2	3.4	1.7 <sup>+0.2</sup> <sub>-0.1</sub>	0.45	14min. <sup>*1</sup>	20min. <sup>*2</sup>	80
SNF2E	6.1±0.5	7.1	2.3±0.3	0.6			160
SNF2H	9.0±1.0	11.0	3.5±0.5	0.7	20min.	—	520

\*1 Forming code S is applied for bulk type.

\*2 Long type is custom-made

\*3 Lead length changes depending on taping and forming type.

### Type Designation

Example

SNF	2E	C	T52	A	100	J
Product Code	Power Rating	Terminal Surface Material	Taping & Forming	Packaging	Nominal Resistance	Resistance Tolerance
	2C: 0.25W 2E: 0.25W 2H: 0.5W	C: SnCu	See table below	A: AMMO R: REEL Nil: BOX	3 digits	J: ±5%

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

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

### Taping & Forming Matrix

Type	Straight		Axial Taping		M Forming			
	S	Nil	T26	T52	M5	M10	M12.5	M15
SNF2CC	○	○ <sup>*2</sup>	○	○	M5F	—	—	—
SNF2EC	○	○ <sup>*2</sup>	○	○	—	M10F	M12.5R	—
SNF2HC	—	○	—	○	—	—	M12.5K	M15K

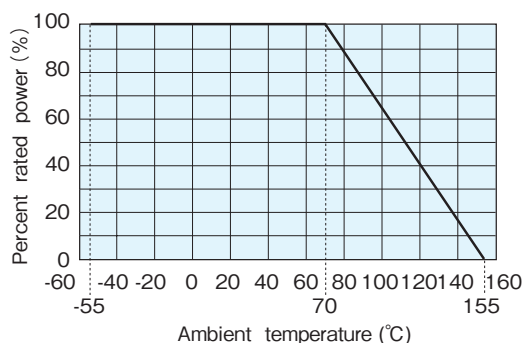
### Ratings

Type	Power Rating	Resistance Range (Ω) J: ±5% E24	T.C.R. (×10 <sup>-6</sup> /K)	Max. Working Voltage (V)	Max. Overload Voltage (V)	Dielectric Withstanding Voltage	Operating Temp. Range	Taping & Q'ty /AMMO (pcs)	
								T26A	T52A
SNF2CC	0.25W	0.47~9.1	+350~-450	E=√P×R	E×2.5	300V	-55°C~+155°C	3,000	3,000
SNF2EC		0.47~100						2,000	2,000
SNF2HC	0.50W					700V		—	2,000

Rated Ambient Temperature : +70°C

Rated voltage=√Power Rating×Resistance value

## Derating Curve



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

## Performance

Test Items	Performance Requirements $\Delta R \pm (\% + 0.05\Omega)$		Test Methods
	Limit	Typical	
Resistance	Within specified tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/+125°C
Overload (Short time)	1	0.5	Rated voltage×2.5 or Max. overload vol., whichever is lower, for 5s
Resistance to soldering heat	1	0.5	260°C±5°C, 10s±1s, 350°C±10°C, 3.5s±0.5s
Terminal strength	No lead-coming off and loose terminals	—	Twist 360°, 5 times
Rapid change of temperature	1	0.5	-55°C (30min.) / +125°C (30min.) 5 cycles
Moisture resistance	5	2.5	40°C±2°C, 90%~95%RH, 1000h 1.5h ON/0.5h OFF cycle
Endurance at 70°C	3	1.5	70°C±2°C, 1000h 1.5h ON/0.5h OFF cycle
Resistance to solvent	No abnormality in appearance. Marking shall be easily legible.	—	Ultrasonic washing with Isopropyl alcohol for 2 min. Power : 0.3W/cm <sup>2</sup> , f : 28kHz, Temp : 35°C±5°C
Flame retardant	No evidence of flaming or self-flaming.	—	Flame test : The test flame shall be applied and removed for each 15 sec respectively to repeat the cycle 5 times. Overload flame retardant : AC Voltage 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.

## Precautions for Use

- 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 lead-free 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.