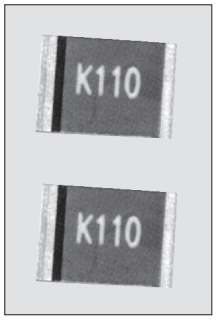
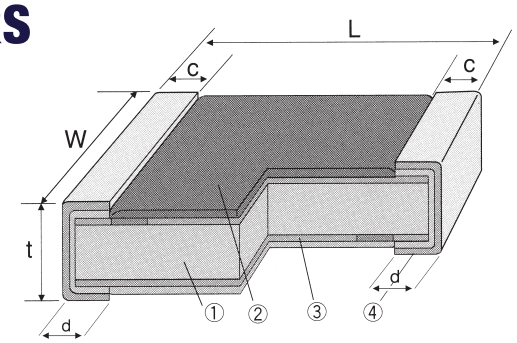
CIRCUIT PROTECTORS

RESETTABLE FUSE

SF 45





STRUCTURE

1 Element (conductive polymer)
2 Protective coating (resin)
3 Inner electrode
4 Outer electrode (Sn plating)

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
SF 45	Green	Alpha-Numeric

All these products have Pb-free terminations and meet EU-RoHS and China-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

SF	45	N	110	T	TE
PRODUCT CODE	STYLE 45: 1812	CHARACTERISTICS N: Normal	HOLD CURRENT 050: 0.5A 075: 0.75A 110: 1.1A	TERMINATION SURFACE MATERIAL T: Sn	TAPING* TE, BK *Please see "PACKAGING"

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

FEATURES

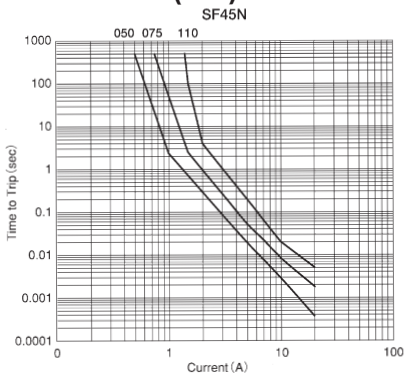
- Quickly break extraordinary current
- Small size SMD Type (1812)
- The least rise in resistance after reflow soldering
- Latched if when extraordinary current continues
- The least rise in resistance by repeating trips
- Ideal for use on PC boards and peripheral equipment; to break extraordinary current in motor control units; for protection of USB-Lines or in communication equipment
- Operating temperature range: -40°C...+85°C
- Reference Standards: UL 1434
- Awarded approvals: UL 1434, File No. E250106
  c-UL CAN/CSA-C22.2, No.0 and Technical Information Letter No. CA-3A File No. E250106

DIMENSIONS (mm)

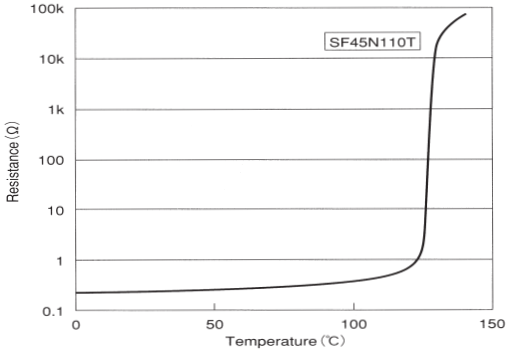
SIZE	TYPE	L	W	t	c/d
1812	SF 45	4.5 ± 0.2	3.2 ± 0.2	0.4 ± 0.2	0.5 ± 0.2

TYPICAL CHARACTERISTICS

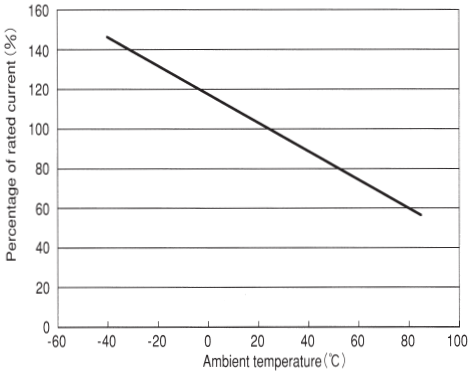
TIME TO TRIP (TYP.)



RESISTANCE vs.TEMPERATURE (TYP.)



TEMPERATURE DERATING



RATING

TYPE	MAX. RATED VOLTAGE (DCV)*1	MAX. RATED CURRENT*2	HOLD CURRENT*3	TRIP CURRENT*4	TIME TO TRIP		INITIAL RESISTANCE (TYP.)*5	MAX. RESISTANCE (AFTER TRIP.)*6	POWER DISSIPATION*7
					CURRENT	TIME			
SF 45 N 050	15.0 V	40 A	0.50 A	1.0 A	8 A	max. 0.3 sec	0.49 Ω	0.85 Ω	0.6 W
SF 45 N 075	13.2 V		0.75 A	1.5 A			0.24 Ω	0.41 Ω	
SF 45 N 110	6.0 V		1.10 A	2.2 A			0.15 Ω	0.21 Ω	

*1 The maximum value of voltage that can be applied on both ends of the product at the state of trip.
*2 Maximum current value which can be applied to the product when the product results to trip.
*3 The maximum value of electric current which can be applied without resulting to trip in +25°C static-air.
*4 Minimum value of electric current by which the product result to trip in +25°C static-air.
*5 Representative value of resistance at +25°C.
*6 The maximum resistance after product has been left in the environment of +25°C for one hour after reactor trip has been done once (after solder reflow).
*7 Representative value of electric power consumption at trip (under the condition of +25°C still air inside).

Please contact KOA for special precautions before you order and use this series.