

CF-Type CAW-Type (RoHS-compliant products)

Introduction

High power ceramic resistors for various electronic and industrial equipment. A wire wound resistive element enclosed in special ceramic which, in turn, is enclosed in an aluminum case with heat radiating fins. A highly reliable resistor whose reliability is based on comprehensive quality control.

Features

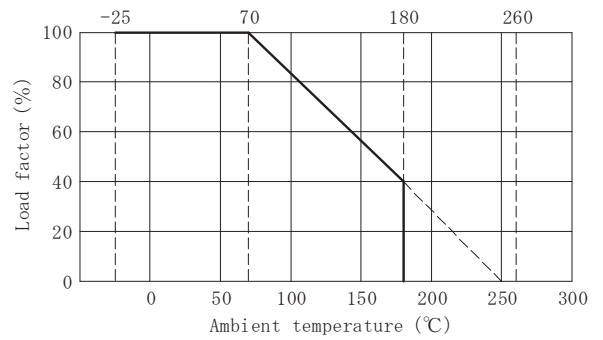
1. Small-sized, large capacity ··· An aluminum case structure with radiating fins, smaller than other resistors of the same rating, and has higher mechanical strength.
2. Allows to save wiring labor ··· Straight cord terminals reduce labor cost.
3. Custom specifications ··· Safety features such as thermal fuses and thermostats can be added per customers' requests to prevent accidents caused by overheating

Type descriptions

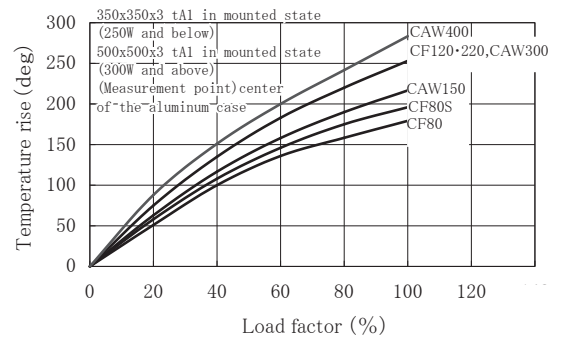
CAW300 Style	N Spec. code	(L250) Lead length code	100Ω Nominal resistance	J Resistance tolerance
CF80~220 CF80S CAW150~400	No: wire wound N: non-inductive	L(***) : *** is lead length When omitted, standard length 150mm is used	Ω or kΩ indication (E-24 series)	J: ±5% K: ±10%

(Note) Products with custom specifications (equipped with fuses, thermostats, etc.) have different product codes.

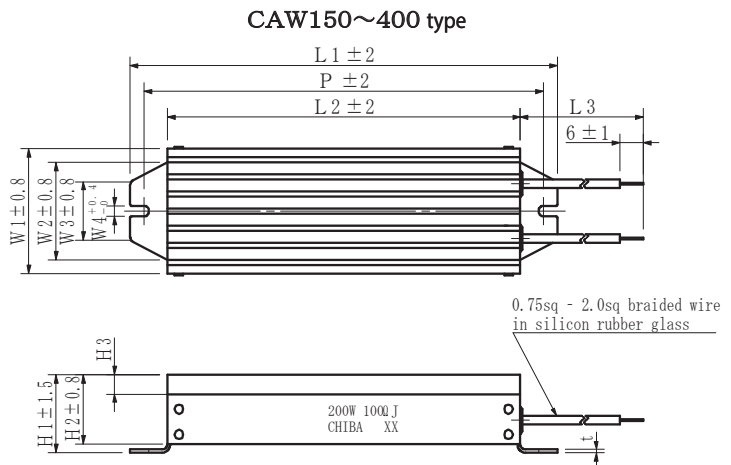
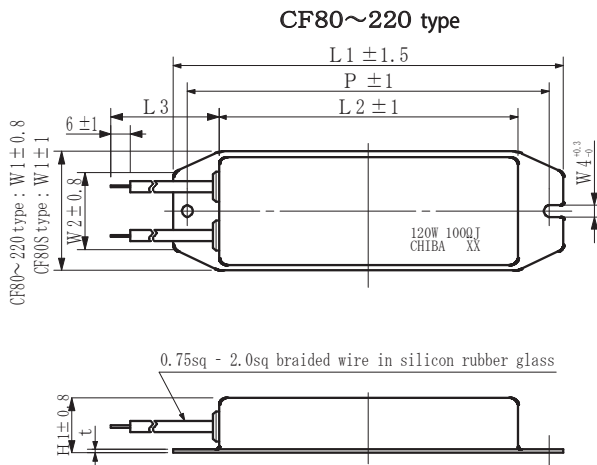
Load derating curve



Temperature rise curve (reference)



Dimensions & Resistance range



Style	Power rating (W)	Resistance Range (Ω) (*2)		Dimensions (mm)											Weight (g)	Customized product (*3)		
		Wire wound	Non-Inductive	L1	L2	L3 (*1) Standard length	P	W1	W2	W3	W4	H1	H2	H3		t	Thermal fuse	Thermostat
CF80	80	0.10 ~ 5.6K	2.4 ~ 910	130	104	150	122	43.5	28	—	4.2	20	—	—	1.2	160	○	○
CF80S	80	0.36 ~ 6.0K	3.3 ~ 1.0K	150	130	"	140	35.0	20	—	"	"	—	—	"	200	×	×
CF120	120	0.10 ~ 10.0K	4.3 ~ 1.5K	182	150	"	172	42.0	28	—	"	"	—	—	"	240	○	○
CF220	220	0.10 ~ 15.0K	5.6 ~ 2.2K	230	194	"	220	62.0	48	—	"	"	—	—	"	440	○	○
CAW150	150	0.15 ~ 6.8K	2.7 ~ 1.0K	162	120	"	150	64.0	50	30	5.3	40	35.5	10	1.6	"	○	○
CAW200	200	0.18 ~ 12.0K	4.3 ~ 1.8K	212	170	"	200	"	"	"	"	"	"	"	"	590	○	○
CAW250	250	0.22 ~ 16.0K	6.2 ~ 2.4K	262	220	"	250	"	"	"	"	"	"	"	"	720	○	○
CAW300	300	0.27 ~ 22.0K	9.1 ~ 3.0K	312	270	"	300	"	"	"	"	"	"	"	"	880	○	○
CAW350	350	0.33 ~ 27.0K	7.5 ~ 3.9K	362	320	"	350	"	"	"	"	"	"	"	"	1020	○	○
CAW400	400	0.39 ~ 30.0K	10 ~ 4.7K	412	370	"	400	"	"	"	"	"	"	"	"	1780	○	○

(*1) Standard lead length is 150mm (can be selected in 150-1000 range with 50mm step)

(*2) Resistance tolerance: below 0.1Ω: K (±10%), 0.1Ω and above: J (±5%)

(*3) Can be customized with special thermal fuse (different from commercially available fuse) and thermostat (○:possible, ×:not possible)