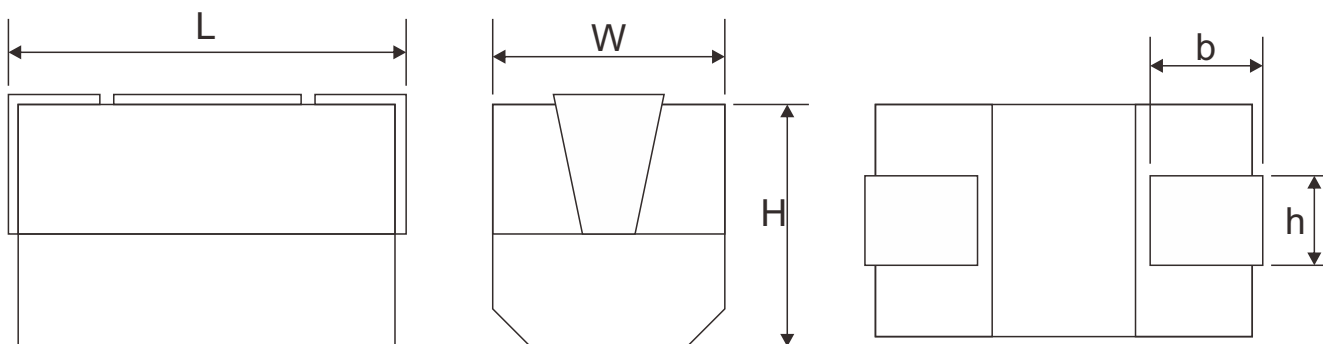


● Features

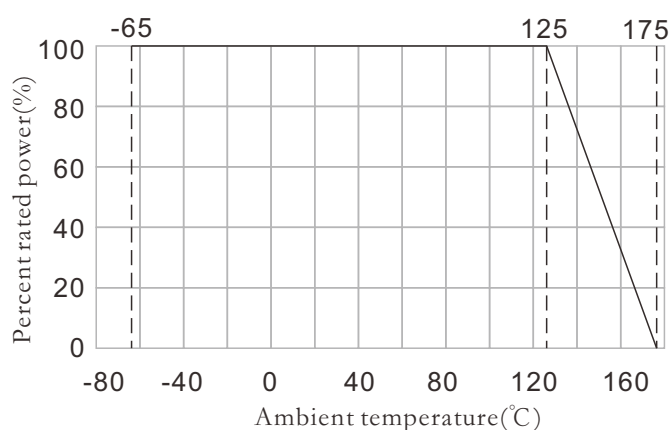
- I Come up to GJB1929-1994
- II Temp range : -65°C ~ 175°C
- III Stability $\pm 0.5\%$ 125°C 1000h
- IV Mold style

● Dimensions

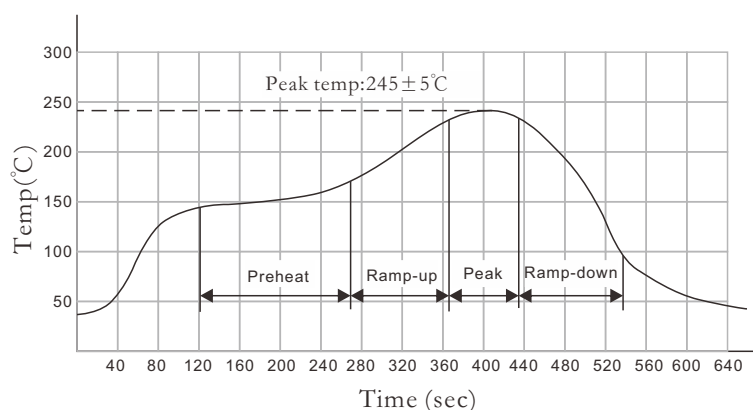


Type	Dimensions(mm)				
	$L \pm 0.2$	$W \pm 0.2$	$H \pm 0.2$	$b \pm 0.15$	$h \pm 0.15$
CMP4223	4.2	2.3	2.3	1.3	1.0
CMP7228	7.2	2.8	2.8	1.35	1.35
CMP9936	9.9	3.6	3.6	1.35	1.35

● Derating curve



● Surface temperature of coil



● Applications And Ratings

Type	Power rating at 70°C (W)	Power rating at 125°C (W)	Limiting element voltage(V)	Resistance range (Ω)	Tolerance range	TCR (PPM/°C)
CMP4223	0.067	0.050	200V	10 ~ 1M5	P($\pm 0.02\%$) W($\pm 0.05\%$) B($\pm 0.1\%$) C($\pm 0.25\%$) D($\pm 0.5\%$) F($\pm 1.0\%$)	C7(± 5)
CMP7228	0.125	0.100	200V	0.1 ~ 5M		C6(± 10)
CMP9936	0.250	0.125	250V	0.1 ~ 10M		C5(± 15) C4(± 20) C3(± 25) C2(± 50)

● Reference Standards

GJB1992-1994 JISC 5201-1

● Provide Resistance Range Table

Type			CMP4223	CMP7228	CMP9336
Code	Tolerance range	Resistance range (Ω)			
P	$\pm 0.02\%$	Form		10R	10R
		to		500K	500K
W	$\pm 0.05\%$	Form	50R	10R	10R
		to	750K	1M0	1M0
B	$\pm 0.1\%$	Form	10R	1R0	1R0
		to	1M0	3M0	3M0
C	$\pm 0.25\%$	Form	10R	1R0	1R0
		to	1M0	5M0	10M0
D	$\pm 0.5\%$	Form	10R	0R5	0R5
		to	1M0	5M0	10M0
F	$\pm 1.0\%$	Form	10R	0R1	0R1
		to	1M5	5M0	10M0
Code	TCR (PPM/ $^{\circ}$ C)				
C7	± 5	Form		5R0	5R0
		to		1M0	1M0
C6	± 10	Form	10R	1R0	1R0
		to	750K	1M0	1M0
C5	± 15	Form	10R	1R0	1R0
		to	1M0	4M0	5M0
C4	± 20	Form	10R	1R0	1R0
		to	1M5	5M0	10M0
C3	± 25	Form	10R	1R0	1R0
		to	1M5	5M0	10M0
C2	± 50	Form	10R	1R0	0R1
		to	1M5	5M0	10M0

● Performance

Test items	Performance requirements	Test methods(JIS C 5201-1)
Short time overload	$\leq \pm(0.25\%R+0.05\Omega)$	2.5 times rated voltage, 5S
Temperature shock	$\leq \pm(0.25\%R+0.05\Omega)$	-65°C ~150°C , 5 cycles,0.5h
Low temp. operation	$\leq \pm(0.25\%R+0.05\Omega)$	-65°C , 1h, \leq 200V,45min
Dielectric strength	$\leq \pm(0.25\%R+0.05\Omega)$	450V,1min,100V/S
Resistance to solder	$\leq \pm(0.25\%R+0.05\Omega)$	350°C , 3S
Resistance to moisture	$\leq \pm(0.5\%R+0.05\Omega)$	-10°C ~65°C , RH80-90%,240H
Load life	$\leq \pm(0.5\%R+0.05\Omega)$	125°C , Pe,1000h
Shock	$\leq \pm(0.25\%R+0.05\Omega)$	980/S ² ,6ms
Vibration	$\leq \pm(0.25\%R+0.05\Omega)$	10~2000Hz,0.75mm,150/S ²

● Ordering Information

Example:

CMP4223	F	10R00	C3
(1)	(3)	(4)	(5)
Series Name	Resistance Tolerance	Resistance	T.C.R

(1)Series Name: CMP4223, CMP7228, CMP9936

(2)Resistance Tolerance: P($\pm 0.02\%$), W($\pm 0.05\%$) B= $\pm 0.1\%$, C= $\pm 0.25\%$, D= $\pm 0.5\%$, F= $\pm 1.0\%$

(3)Resistance: 0R100=0.1 Ω , 0R220=0.22 Ω , 10R00=10 Ω , 1M000=1M Ω

(4)T.C.R: C7= $\pm 5\%$ PPM/ $^{\circ}$ C, C6= $\pm 10\%$ PPM/ $^{\circ}$ C, C5= $\pm 15\%$ PPM/ $^{\circ}$ C, C4= $\pm 20\%$ PPM/ $^{\circ}$ C, C3= $\pm 25\%$ PPM/ $^{\circ}$ C, C2= $\pm 50\%$ PPM/ $^{\circ}$ C