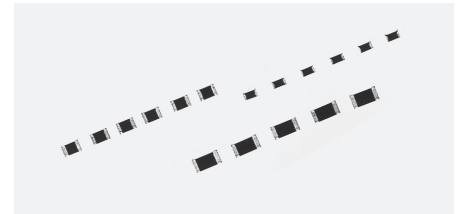


HP TYPE

Precision High Value Chip Resistors

Resistance Range $1\text{M}\Omega\sim 100\text{M}\Omega$

Tolerance $\pm 1\%$, $\pm 2\%$, $\pm 5\%$



The HP type resistors are the high precise version of HC type resistors.
The resistance tolerance is small, $\pm 1\%$, at $100\text{M}\Omega$ and TCR is also small.

FEATURES

- Very small resistance tolerance at $100\text{M}\Omega$
- Small temperature coefficient
- Stable performance obtained because of excellent long-term stability.

CHARACTERISTICS

Item	Characteristics		Test method
	$1\text{M}\Omega\sim 50\text{M}\Omega$	$51\text{M}\Omega\sim 100\text{M}\Omega$	
Long-term stability	$\pm 0.5\%$	$\pm 0.5\%$	At normal temperature and humidity for 1,000hr.
High temperature loading	$\pm 0.5\%$	$\pm 1\%$	Rated Voltage. 1.5hr ON, 0.5hr OFF, 1,000hr at 70°C
Resistance to soldering heat	$\pm 0.5\%$	$\pm 1\%$	$260^\circ\text{C}\pm 5^\circ\text{C}$ 10sec $\overset{+1}{\underset{0}{\text{sec}}}$
Short-time overload	$\pm 0.5\%$	$\pm 1\%$	Test for 5sec using maximum overload voltage.
Operating temperature range	$-55^\circ\text{C}\sim +125^\circ\text{C}$		

Temperature Coefficient (TCR)

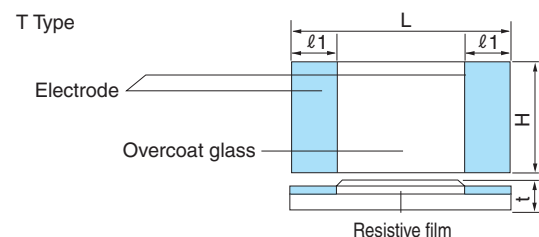
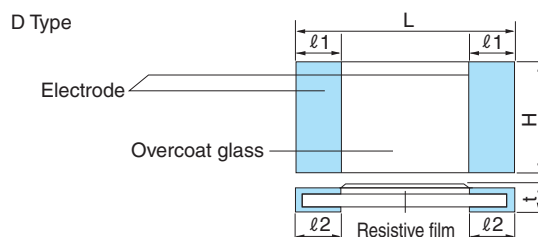
Type	Characteristics		Test method
	$1\text{M}\Omega\sim 50\text{M}\Omega$	$51\text{M}\Omega\sim 100\text{M}\Omega$	
HP2A	$\pm 100\text{ppm}/^\circ\text{C}$	$\pm 200\text{ppm}/^\circ\text{C}$	$25^\circ\text{C}\rightarrow 125^\circ\text{C}$
HP2B			
HP2C			
HP1C			

Voltage Coefficient (VCR)

Type	Characteristics	Test method
HP2A	$-0.02\%/V\leq$	$5\text{V}\rightarrow 15\text{V}$
HP2B	$-0.1\%/V\leq$	
HP2C		
HP1C		

PRODUCTION DATA

Shape



Type	Rated power (W)	Max. working voltage DC(V)	Max. overload voltage DC(V)	Range of resistance Values		Dimensions (mm)					Electrode shape ※1	Resistance tolerance (%)
				Min. (M Ω)	Max. (M Ω)	L	H	t	l1	l2		
HP2A	1/8	150	300	1	100	3.2 ± 0.2	1.6 ± 0.2	0.55 ± 0.1	0.5 ± 0.3	0.5 ± 0.3	D	$\pm 1\text{(F)}$ $\pm 2\text{(G)}$ $\pm 5\text{(J)}$
HP2B	1/16	75	150	1	100	2.0 ± 0.2	1.25 ± 0.2	0.5 ± 0.1	0.4 ± 0.2	0.4 ± 0.2	D	
HP2C	1/32	50	100	1	100	1.6 ± 0.1	0.8 ± 0.1	0.45 ± 0.1	0.2 ± 0.1	0.3 ± 0.1	D	
HP1C	1/60	50	100	1	100	1.0 ± 0.1	0.5 ± 0.1	0.3 ± 0.05	0.2 ± 0.1	$0.25^{+0.15}_{-0.1}$	D	

NOTICE : ※1 We can also supply the T type of electrode shape.

※ Also consult your local dealer for the availability of chip resistors with dimension of your needs and Au terminals.