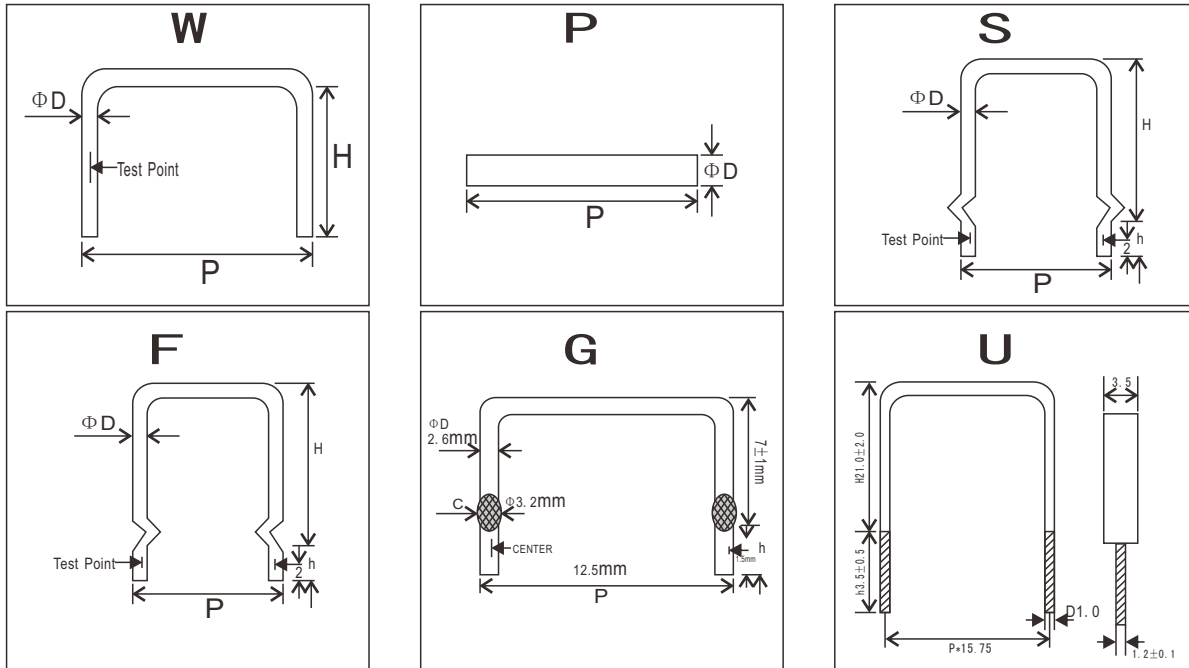




● Features

- I Low resistance value ,lowest can be reached at 0.001Ω.
- II Operating ambient temperature:-55℃ ~ +125.
- III Special forming types are available according to customer's requirement.
- IV Resistance tolerance: ± 1%, ± 5%, ± 10%.
- V Low inductance.
- VI High stability.

● Dimensions



Type	Code	Power	Dimensions(mm)				
			ΦD±0.1	P±0.2	H±0.5	C±0.5	h±0.5
HMR	W	0.5W~5W	0.5~3.5	5~30	5~40	1~3	2.5~3.5
HMR	P	0.5W~5W	0.5~3.5	5~30	5~40	1~3	2.5~3.5
HMR	S	0.5W~5W	0.5~3.5	5~30	5~40	1~3	2.5~3.5
HMR	F	0.5W~5W	0.5~3.5	5~30	5~40	1~3	2.5~3.5
HMR	G	0.5W~5W	0.5~3.5	5~30	5~40	1~3	2.5~3.5
HMR	U	0.5W~5W	0.5~3.5	5~30	5~40	1~3	2.5~3.5

Customerized products are available , engineering support please email to kh@khxcom.com

● Ordering Information

Example:

HMR	05	W	J	0R005
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Code	Resistance Tolerance	Resistance

(1)Type:HMR SERIES

(2)Power Rating:0.5W~5W

(3)code:W,P,S,F,G,U

(4)Tolerance: F= ± 1%,J= ± 5%,K= ± 10%

(5)Resistance Value:0R005=5mR,0R010=10mR,0R100=100mR

Reference Standards

JISC 5201-1

Applications And Ratings

Type	Code	Rated Power(W)	Resistance Range(Ω)	Tolerance	T.C.R	Rated Current	Temperature Range($^{\circ}$ C)
HMR	W	0.5W~5W	0.01~0.1 Ω	F= \pm 1% J= \pm 5% K= \pm 10%	\pm 10PPM/ $^{\circ}$ C \pm 20PPM/ $^{\circ}$ C \pm 50PPM/ $^{\circ}$ C	0.5A~10A	-55 $^{\circ}$ C ~ +100 $^{\circ}$ C
HMR	P	0.5W~5W	0.01~0.1 Ω			0.5A~10A	
HMR	S	0.5W~5W	0.01~0.1 Ω			0.5A~10A	
HMR	F	0.5W~5W	0.01~0.1 Ω			0.5A~10A	
HMR	G	0.5W~5W	0.01~0.1 Ω			0.5A~10A	
HMR	U	0.5W~5W	0.01~0.1 Ω			0.5A~10A	

Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	\pm 10ppm/ $^{\circ}$ C \pm 20ppm/ $^{\circ}$ C \pm 50ppm/ $^{\circ}$ C	Test resistance value at normal temperature and normal temperature added 100 $^{\circ}$ C, calculate $^{\circ}$ C resistance value change rate.
Resistance to soldering heat	Δ R \leq \pm 0.5%R0	Immerge into the 350 \pm 10 $^{\circ}$ C tin stove for 2~3 seconds
Solderability	Soldering area is over 95%	Immerge into the 245 \pm 3 $^{\circ}$ C tin stove for 2~3 seconds
Temperature cycle	Δ R \leq \pm 0.5%R0	At-55 $^{\circ}$ C for 30min, then at+25 $^{\circ}$ C for 10~15min, then at +155 $^{\circ}$ C for 30min, then at +25 $^{\circ}$ C for 10~5, min, total 5cycles.
Load life in humidity	Δ R \leq \pm 2%R0	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 40 \pm 2 $^{\circ}$ C and 90~95% relative humidity.
Load life in heat	Δ R \leq \pm 2%R0	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 70 \pm 2 $^{\circ}$ C.
Rated load	Δ R/R \leq 1%	Surface temperature rise:120 $^{\circ}$ C Max
Short-time loading	Δ R/R \leq 2%	5 times of rated power, no spark and burning damage with in 5seconds
Terminal intensity	Δ R/R \leq 1%	No mechanical damage above Φ 1.0mm,5KG/10SEC within Φ 0.8mm 2KG/10SEC
Resistance to vibration	Δ R/R \leq 1%	No mechanical damage
Heat resistance	Δ R/R \leq 1%	No damage (200 $^{\circ}$ C 2Hrs)
Thermal shock	Δ R/R \leq 2%	No damage(Rated load for 30min~-40 $^{\circ}$ C 15min)
Temperature frequency	Δ R/R \leq 2%	No mechanical damage and appearance change(-40 $^{\circ}$ C /200 $^{\circ}$ C 5 cycles)
Life test	Δ R/R \leq 3%	100% load (90min ON 30min OFF1000Hrs)