

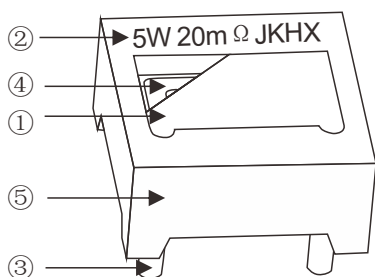


Body color: White  
 Coating color: White  
 Marking: Alphanumeric

## ● Feature

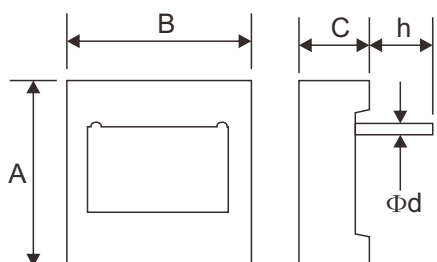
- I Compact type with safety design of Non-flammability and insulation.
- II Low resistance and resilient to surge current.
- III Non-inductance.
- IV Products meet EU-RoHS.
- V Can be produced according to customer's request.

## ● Construction



①	Silicon cement
②	Marking
③	Lead wire
④	Metal board
⑤	Ceramic case

## ● Dimensions



Type	Power (W)	Dimensions(mm)				
		A	B	C	h	Φd
MPW	5W	16 ± 1.0	16 ± 1.0	6.0 ± 0.5	4.5 ± 0.5	0.8 ± 0.5

## ● Reference Standards

JIS C 5201-1

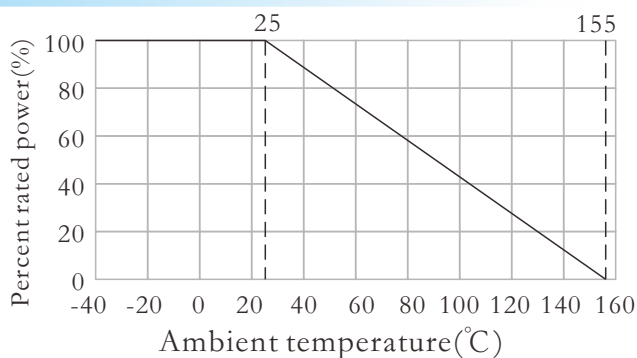
## ● Ordering Information

Example:

MPW	05	F	10R00	C3	CP
(1)	(2)	(3)	(4)	(5)	(6)
Series Name	Power Rating	Resistance Tolerance	Resistance	Forming	Lead wire

- (1) Series Name: MPW series
- (2) Power Rating: 05=5W
- (3) Resistance Tolerance: F= ± 1%, G= ± 2%, J= ± 5%, K= ± 10%
- (4) Resistance: 0R100=0.1Ω, 0R220=0.22Ω, 10R00=10Ω, 1M000=1MΩ
- (5) Forming: S000: Straight
- (6) Lead wire: Copper wire

## Derating curve



## Applications And Ratings

Type	Rated power	Resistance range ( $\Omega$ )	Dielectric withstanding voltage	T.C.R	Tolerance
MPW	5W	0.01 ~ 0.5	500V	$\pm 350$ PPM/ $^{\circ}$ C	F( $\pm 1\%$ ),G( $\pm 2\%$ ) J( $\pm 5\%$ ),K( $\pm 10\%$ )

## Performance

Test Items	Performance Requirements	Test Methods(JIS C 5201-1)
Resistance	Within specified tolerance	Measuring points are 10mm from the end cap
T.C.R.	Within specified T.C.R.	Room temperature + 100 $^{\circ}$ C
Short time overload	$\pm (2\% + 0.05\Omega)$	6.25 times the rated power for 5 seconds
Load life	$\pm (5\% + 0.1\Omega)$	Rated voltage at 70 $^{\circ}$ C for 1,000 hours 1.5hr ON / 0.5hr OFF Cycles
Load life in humidity	$\pm (5\% + 0.1\Omega)$	10% rate power load, 40 $^{\circ}$ C, 95% RH for 1,000 hours; 1.5h ON / 0.5h OFF cycle
Moisture resistance	$\pm (2\% + 0.05\Omega)$	40 $^{\circ}$ C, 95% RH for 240 hours
Temperature cycle	$\pm (1\% + 0.05\Omega)$	5 cycles for -25 $^{\circ}$ C (30min) ; room temp. (30min) ~ +85 $^{\circ}$ C (30min) room temp. (30min)
Resistance to soldering heat	$\pm (2\% + 0.05\Omega)$	260 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C for 10 seconds 350 $^{\circ}$ C $\pm$ 10 $^{\circ}$ C for 3.5 seconds
Insulation resistance	>10M $\Omega$	500V insulation test 1min.
Flameproof	No evidence of flaming or arcing	AC voltage of 2,4,8,16,32 times the power rating for 1min. ( $V \cong 4$ times max. working voltage)