

SHENG HUA ELECTRONIC CO., LTD.

2. MARKING :



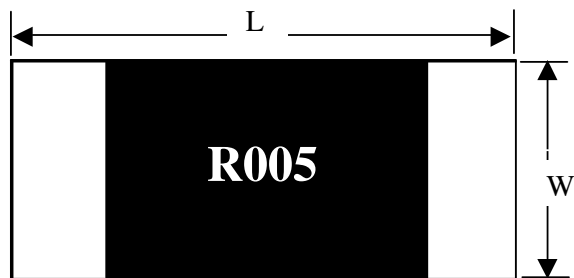
Value: 0.005Ω

$$\begin{aligned}\text{Resistance Value} &= \text{Last digital (5)} \times 10^{-3}\Omega \\ &= 0.005\Omega \\ &= 5\text{m}\Omega\end{aligned}$$

$$\begin{aligned}\text{Example : R010} &= \text{Last two digitals (1)} \times 10^{-2}\Omega \\ &= 0.01\Omega \\ &= 10\text{m}\Omega\end{aligned}$$

$$\begin{aligned}\text{R100} &= \text{Last three digitals (1)} \times 10^{-1}\Omega \\ &= 0.1\Omega \\ &= 100\text{m}\Omega\end{aligned}$$

3. DIMENSIONS :

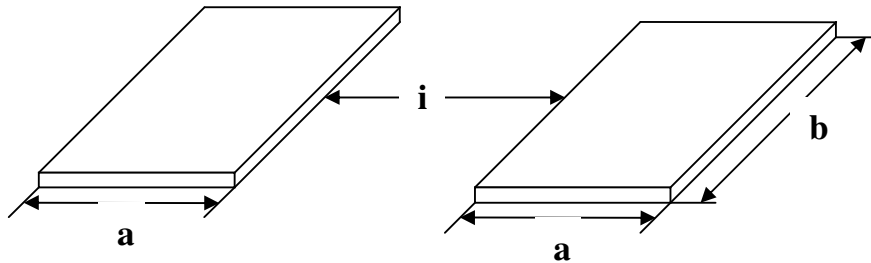


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TYPE	Resistance Range (Ω)	Power Rating (watts)	Dimensions-mm (inches)			
			L	W	H	T
0805	0.001~0.05	0.25W~0.5W (V)~(U)	2±0.25 (0.08±0.010)	1.25±0.25 (0.05±0.010)	0.65±0.25 (0.025±0.010)	0.5±0.25 (0.019±0.010)
1206	0.001~0.05	0.5W~1W (U)~(T)	3.1±0.25 (0.122±0.010)	1.60±0.25 (0.062±0.010)	0.75±0.25 (0.029±0.010)	0.7±0.25 (0.027±0.010)
2010	0.0005~0.029	1W~2W (T)~(S)	5.1±0.25 (0.200±0.010)	2.65±0.25 (0.104±0.010)	0.85±0.25 (0.033±0.010)	1.3±0.25 (0.051±0.010)
	0.03~0.1					0.7±0.25 (0.027±0.010)
2512	0.0005~0.0049	1W~3W (T)~(R)	6.35±0.25 (0.25±0.010)	3.3±0.25 (0.129±0.010)	0.85±0.25 (0.033±0.010)	1.9±0.25 (0.074±0.010)
	0.0005~0.079					1.15±0.25 (0.045±0.010)
	0.08~0.2					0.8±0.25 (0.031±0.010)
2725	0.0005~0.0079	3W~4W (R)~(E)	7.1±0.25 (0.28±0.010)	6.3±0.25 (0.25±0.010)	0.85±0.25 (0.033±0.010)	1.9±0.25 (0.074±0.010)
						1.15±0.25 (0.045±0.010)
	0.08~0.1					0.8±0.25 (0.031±0.010)

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4. RECOMMEND SOLDER PAD DIMENSIONS :

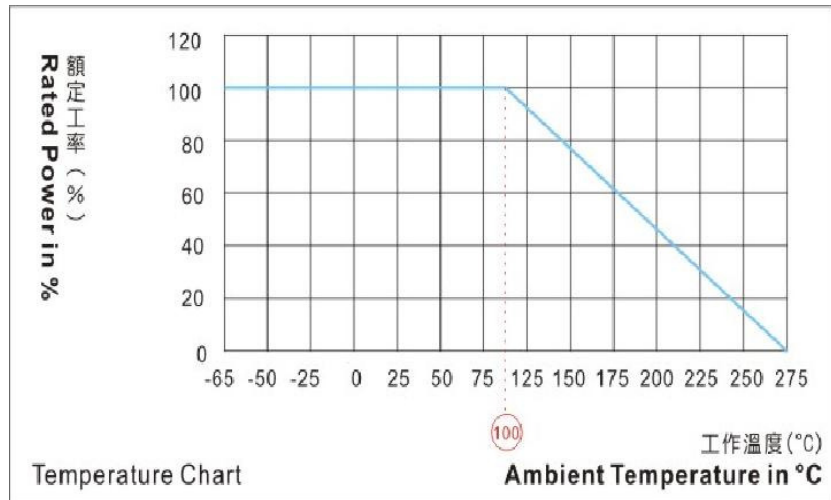


Type	Resistance Range (Ω)	Power Rating (watts)	Dimensions-mm (inches)		
			a	b	i
0805	0.001~0.05	0.25W~0.5W (V)~(U)	0.9(0.035)	1.5(0.059)	0.8(0.031)
1206	0.001~0.05	0.5W~1W (U)~(T)	1.5(0.059)	1.95(0.077)	0.8(0.031)
2010	0.0005~0.029	1W~2W (T)~(S)	2.25(0.089)	2.9(0.114)	1.5(0.059)
	0.03~0.1		1.6(0.063)	2.9(0.114)	3.14(0.124)
2512	0.0005~0.0049	1W~1.5W (T)~(A)	3(0.118)	3.65(0.144)	1.5(0.059)
	0.0005~0.079		2.2(0.087)	3.65(0.144)	3.14(0.124)
	0.08~0.2		1.9(0.075)	3.65(0.144)	3.6(0.141)
	0.0005~0.0049	2W (S)	3(0.118)	3.65(0.144)	1.5(0.059)
	0.0005~0.079		2.2(0.087)	3.65(0.144)	3.14(0.124)
	0.001~0.003	3W (R)	3(0.118)	3.65(0.144)	1.5(0.059)
2725	0.0005~0.001	4W (E)	3(0.118)	7(0.27)	1.5(0.059)
	0.002~0.05	4W (E)	2.2(0.087)		3.14(0.124)
	0.051~0.1	3W (R)	1.9(0.075)		3.6(0.141)

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5. POWER DERATING CURVE :

The curve will decrease when temperature is over 100°C and below 275°C.



The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula :

$$V = \sqrt{P \times R}$$

V = Continuous rated DC or AC (rms) working voltage

P = Rated power (W)

R = Resistance value (Ω)

6. PERFORMANCE :

Test Item	Conditions of test	Test Method
Thermal Shock	55 °C to + 125 °C, 1000 cycles , 15 minutes at each extreme	JIS C5202 7.4

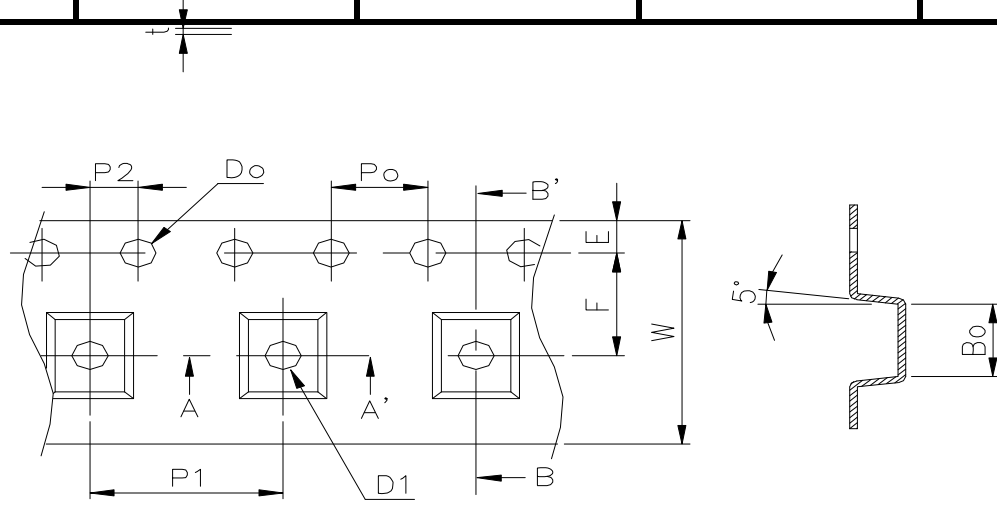
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Solder ability test	Steam aging:4 hrs, cool down 30 minutes then test	JIS C5202 6.5
Low Temperature Storage	-65°C for 24 hours	JIS C5202 7.1
High Temperature Storage	1000 hours @ + 275°C	JIS C5202 7.2
Short Time Overload	5x rated power for 5seconds	JIS C5202 5.5
Bias Humidity	- 85°C, 85% RH, 10% Bias, 1000 hours,90 minutes "ON",30 minutes "OFF"	JIS C5202 7.9
Mechanical Shock	100 grams for 6 milliseconds, 5 pulses	JIS C5202 6.13
Vibration	Frequency varied 55Hz in one minute , 3 directions , 12 hours	JIS C5202 6.7
Load Life	1000 hours @ rated power, + 100°C , 1.5 hours "ON" , 0.5 hours "OFF"	JIS C5202 7.10
Resistance to Solder Heat	Solder temp./immersion time:260±5°C ,10±1secs and 350±10°C ,3.5±0.5secs	JIS C5202 6.4
Moisture Resistance	Mil-STD-202 , Method 106 , 0% power , 7a and 7b not required	JIS C5202 7.6
Resistance to solvent	Immersion time:60±5 secs,20°C ~ 25 °C	JIS C5202 6.9

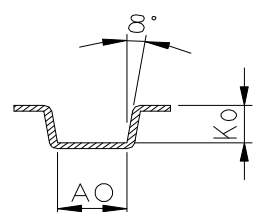
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7. PACKAGING :

Model	Reel			
	Tape Width	Diameter	Pieces/Reel	Code
0805	8mm/Embossd Plastic	178mm/7"	5,000	1
1206	8mm/Embossd Plastic	178mm/7"	2,000	1
2010	12mm/Embossd Plastic	178mm/7"	2,000	1
2512	12mm/Embossd Plastic	178mm/7"	2,000	1
2725	16mm/Embossd Plastic	178mm/7"	1000	1

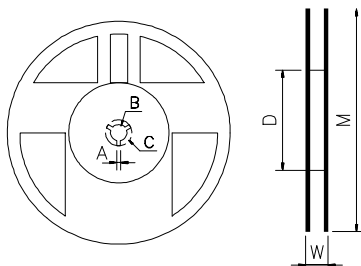


SEC: B B



Unit: mm

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Item	W	P1	E	F	Do	D1	P0	P2	Ao	Bo	Ko	t
0805	8.00	4.00	1.75	3.50	1.55	1.00	4.00	2.00	1.45	2.25	0.90	0.25
1206	8.00	4.00	1.75	3.50	1.55	1.00	4.00	2.00	1.83	3.50	0.90	0.20
2010	12.00	4.00	1.75	5.50	1.50	1.50	4.00	2.00	2.90	5.45	1.10	0.23
2512	12.00	8.00	1.75	5.50	1.55	1.50	4.00	2.00	3.90	6.74	1.08	0.24
2725	16.00	12.00	1.75	7.50	1.50	---	4.00	2.00	6.5	7.25	1.200	0.30
Tolerance	±0.30	±0.10	±0.10	±0.05	±0.05	MIN	±0.10	±0.05	±0.10	±0.10	±0.10	±0.10

单击下面可查看定价，库存，交付和生命周期等信息

[>>SHENG HUA\(昇华\)](#)