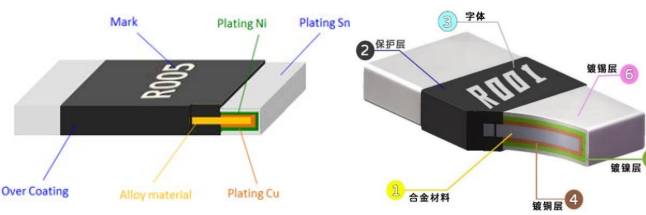




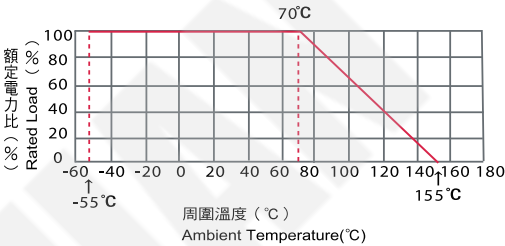
特點 Features

- 低電阻和低溫度係數
Low resistance and Low TCR.
- 高穩定性及高可靠性
High stability & reliability
- 適用無鉛回流焊及波峰焊制程
Suit for reflow and wave soldering
- 符合 RoHS2.0 標準和 REACH 標準
RoHS2.0 compliant and REACH compliant

結構圖 Construction



負載遞減曲線 Power Derating Curve



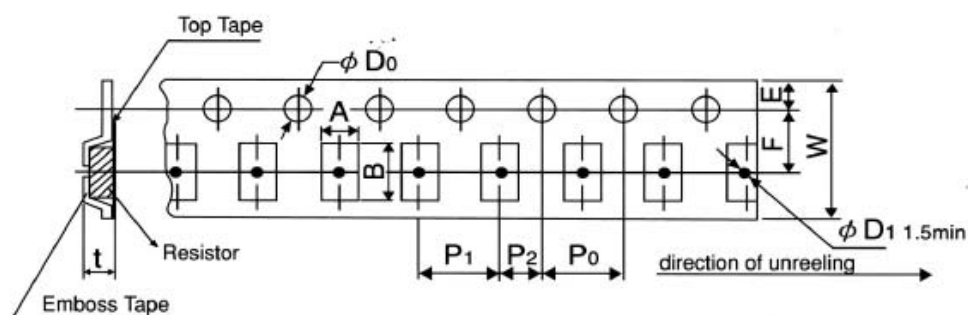
規格 Specifications



單位 Unit : mm

類型 Type	阻值範圍 Resistance Range(mΩ)	T.C.R (PPM)	功 率 Power Rating(W)	長 L	寬 W	厚度 T	電極 C
0603	2mΩ≤R≤20mΩ	±150ppm/°C	1/8W、1/4W 、1/2W	1.6±0.2	0.8±0.2	Max 0.40	0.50±0.15 (2mΩ≤R≤3mΩ)
		±100ppm/°C		1.6±0.2	0.8±0.2	Max 0.40	0.35±0.15 (4mΩ≤R≤5mΩ)
		±75ppm/°C		1.6±0.2	0.8±0.2	Max 0.35	0.35±0.15 (6mΩ≤R≤20mΩ)
0805	1.5mΩ≤R≤20mΩ	±50ppm/°C	1/8W、1/4W 、1/2W	2±0.1	1.2±0.1	0.6±0.20	0.65±0.2 (R≤3mΩ)
							0.4±0.2 (R> 3mΩ)
1206	0.5mΩ≤R≤200mΩ	±50ppm/°C	1/2W	3.2±0.2	1.6±0.2	0.6±0.20	1.1±0.3(R = 1mΩ)
	0.5mΩ≤R≤100mΩ		1W				0.5±0.3 (R> 1mΩ)
2512	0.5 mΩ≤R≤100mΩ	±50ppm/°C	1W、1.5 W、2 W、3W	6.4±0.2	3.2±0.2	0.7 ±0.20	2.0±0.2 (R≤1mΩ)
	100 mΩ< R≤500mΩ		1W、1.5 W、2 W				0.9±0.2 (R> 1mΩ)
2725	0.2mΩ	±100ppm/°C	4W	6.8±0.25	6.5±0.25	1.2±0.1	1.7±0.25
	0.25mΩ	±50ppm/°C					1.2±0.25
	0.5mΩ	±50ppm/°C					
	1mΩ-2mΩ						
	3mΩ	±50ppm/°C					1.0±0.25

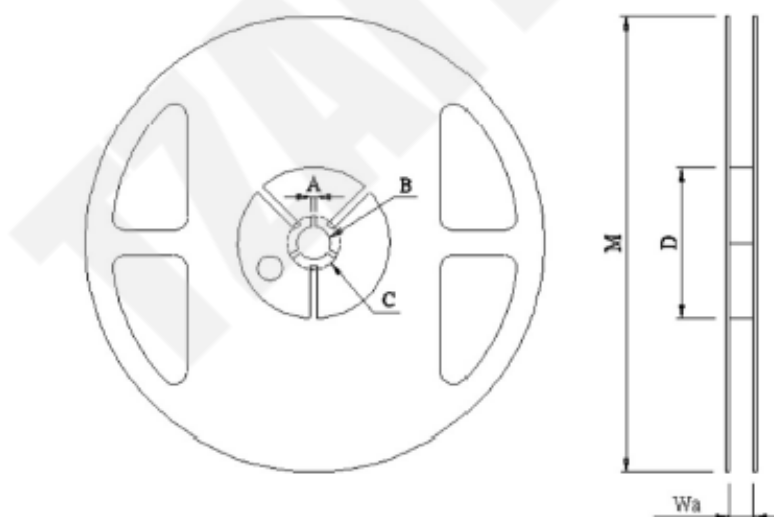
紙帶尺寸 Tape Specification



單位 Unit : mm

Type	Pack	QTY/Reel	A	B	D0	E	F	P0	P1	P2	W	D1	T
0603	Paper	5000pcs	1.2	2	1.5	1.75	3.5	4	4	2	8	NA	0.55
0805	Paper	5000pcs	1.6	2.4	1.5	1.75	3.5	4	4	2	8	NA	0.84
1206	Paper	5000pcs	2	3.6	1.5	1.75	3.5	4	4	2	8	NA	0.81
2512	Emboss	4000pcs	3	6.9	1.5	1.75	5.5	4	4	2	12	1.5	1.2
2725	Emboss	1000pcs	7.15	6.75	1.5	1.75	5.5	4	8	2	12	1.5	1.95

塑膠圓盤尺寸 Reel Dimensions



Type	A	B	C	D	M	W
0603	2±0.5	13.5±0.5	21±0.5	60±1	178±2	9±0.5
0805	2±0.5	13.5±0.5	21±0.5	60±1	178±2	9±0.5
1206	2±0.5	13.5±0.5	21±0.5	60±1	178±2	9±0.5
2512	2±0.5	13.5±0.5	21±0.5	80±1	178±2	13.8±0.5
2725	2±0.5	13.5±0.5	21±0.5	80±1	178±2	13.8±0.5

高功率超低合金晶片電阻器

品名構成 Product Identification

<u>LH</u>	<u>25</u>	<u>1mΩ</u>	<u>F</u>	<u>1W</u>																
種類	額定功率	公稱電阻值	電阻值容許誤差	功率																
Type	Power Rating	Nominal Resistance Value	Resistance tolerance	Power																
	<table><tr><td>06</td><td>0603</td></tr><tr><td>08</td><td>0805</td></tr><tr><td>12</td><td>1206</td></tr><tr><td>25</td><td>2512</td></tr><tr><td>27</td><td>2725</td></tr></table>	06	0603	08	0805	12	1206	25	2512	27	2725		<table><tr><td>F</td><td>G</td><td>J</td></tr><tr><td>±1%</td><td>±2%</td><td>±5%</td></tr></table>	F	G	J	±1%	±2%	±5%	
06	0603																			
08	0805																			
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25	2512																			
27	2725																			
F	G	J																		
±1%	±2%	±5%																		

特性 Characteristics

特性項目 Item	規格值 Performance	試驗方法(依據 JIS C 5201-1) Test Methods(Conform to JIS C 5201-1)
溫度係數 Temperature Coefficients	0603 (2mΩ≤R≤3mΩ) ±150ppm/°C 0603 (4mΩ≤R≤5mΩ) ±100ppm/°C 0603 (6mΩ≤R≤20mΩ) ±75ppm/°C 0805、1206、2512 ±50ppm/°C LH 2725 0.2mR (±100ppm/°C) LH 2725 0.25mR、0.5mR (±50ppm/°C) LH 2725 1mR-2mR (±50ppm/°C) LH 2725 3mR (±50ppm/°C)	4.8 項參照 Comply with 4.8 R1-R0 $\frac{R0(T1-T0)}{R0(T1-T0)} \times 10^6 (PPM/°C)$ R0 : 室溫(T0)所測量之電阻值。 R1 : 室溫+100°C(T1)後所測量之電阻值。 R0 : Resistance value at room temp(T0). R1 : Resistance value at room temp plus 100°C(T1).
短時間過負荷 Short Time Overload	$\Delta R \leq \pm (1\% \pm 0.5m\Omega)$	額定功率的 5 倍, 5 秒 5times Power voltage, for 5 Seconds
耐濕負荷壽命 Load Life in Humidity	$\Delta R \leq \pm (1\% \pm 0.5m\Omega)$	40± 2°C with relative humidity 90% ~ 95% D.C. rated voltage for 1.5 hours ON 30 minutes OFF. Cycle repeated 1000 hours.
絕緣電阻 Insulation Resistance	10 ³ MΩ 以上。 10 ³ MΩ or more.	IEC 115-1 4.6.1.1 / JIS C 5201-1 4.6 Test voltage : 100± 15V
耐電壓 Dielectric Withstanding Voltage	無電弧放電、燒損及絕緣破壞等異狀。 No evidence of flashover mechanical damage, arcing or insulation breakdown.	4.7 項參照 Comply with 4.7 施加個別規定之交流電壓 60 秒。 Resistor shall be tested at AC potential respectively for 60 seconds.
焊錫附著性 Solderability	電極至少 95%以上新錫覆蓋。 Electrode with new solder by 95% at least.	4.17 項參照 Comply with 4.17 焊錫溫度 : 245±5°C 浸錫時間 : 2±0.5 秒 Test temperature of solder : 245±5°C Dipping time in solder : 2±0.5 seconds
溫度循環 Temperature Cycle	$\Delta R \leq \pm (1\% \pm 0.5m\Omega)$ No mechanical damage.	IEC 115-1 4.19 / JIS C 5201-1 4.19 Repeat 5 cycles as follows-55°C (30min.) + 25°C (2~3min.) + 155°C (30min.) + 25°C (2~3min.)
負荷壽命 Load Life	$\Delta R \leq \pm (1\% \pm 0.5m\Omega)$	IEC 115-1 4.25.1 / JIS C 5201-1 4.25.1 Rated voltage for 1.5hours for followed by a pause 0.5 hour at 70± 3°C . Cycle repeated 1000 hours).
焊錫耐熱性 Resistance to Soldering Heat	$\pm(1\%+0.05\Omega)$ 以內。 不得有機械的損傷。 Within $\pm(1\%+0.05\Omega)$. No evidence of mechanical damage.	4.18 項參照 Comply with 4.18 260±5°C, 10±1.0 秒, 試驗後放置 1 小時。 260±5°C, 10±1.0 seconds, After test leave for 1h.