

THIN FILM PRECISION CHIP RESISTOR 薄膜精密晶片電阻器

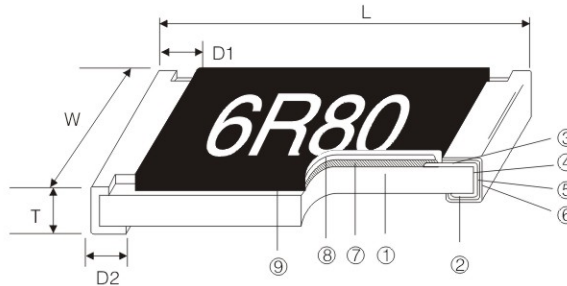
AR

0201
0402
0603
0805
1206
1210
2010
2512



FEATURES 特性

- Advanced thin film technology. 先進薄膜技術
- Very tight tolerance down to $\pm 0.01\%$. 精密誤差 $\pm 0.01\%$
- Extremely low TCR down to $\pm 5\text{PPM}/^\circ\text{C}$. 極低使用溫度範圍 $\pm 5\text{PPM}/^\circ\text{C}$
- Wide resistance range 1ohm~3Mega ohm. 阻值範圍1ohm~3Mega ohm



1	Alumina Substrate	4	Edge Electrode(NiCr)	7	Resistor Layer(NiCr)
2	Bottom Electrode(Ag)	5	Barrier Layer(Ni)	8	Overcoat(Epoxy)
3	Top Electrode(Ag-Pd)	6	External Electrode(Sn)	9	Marking

DIMENSIONS 尺寸

Unit: mm

TYPE 型號	SIZE 尺寸	L	W	T	D1	D2	WEIGHT(G) 重量 (1000PCS)
AR01	0201	0.58 ± 0.05	0.29 ± 0.05	0.23 ± 0.05	0.12 ± 0.05	0.15 ± 0.05	0.14
AR02	0402	1.00 ± 0.05	0.50 ± 0.05	0.30 ± 0.05	0.20 ± 0.10	0.20 ± 0.10	0.54
AR03	0603	1.55 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20	1.83
AR05	0805	2.00 ± 0.15	1.25 ± 0.15	0.55 ± 0.10	0.30 ± 0.20	0.40 ± 0.25	4.71
AR06	1206	3.05 ± 0.15	1.55 ± 0.15	0.55 ± 0.10	0.42 ± 0.20	0.35 ± 0.25	9.02
AR10	1210	3.10 ± 0.15	2.40 ± 0.15	0.55 ± 0.10	0.40 ± 0.20	0.55 ± 0.25	10
AR20	2010	4.90 ± 0.15	2.40 ± 0.15	0.55 ± 0.10	0.60 ± 0.30	0.50 ± 0.25	23.61
AR25	2512	6.30 ± 0.15	3.10 ± 0.15	0.55 ± 0.10	0.60 ± 0.30	0.50 ± 0.25	38.06

SPECIFICATIONS 規格

ITEM 項目 TYPE 型號	POWER RATING AT 70°C 額定功率	OPERATING TEMP. RANGE 使用溫度範圍	MAX. OPERATING VOLTAGE 最高使用電壓	MAX. OVERLOAD VOLTAGE 最高負荷電壓	VALUE RANGE 阻值範圍					TCR 溫度系數 (PPM/°C)
					± 0.05%	± 0.1%	± 0.25%	± 0.5%	± 1%	
AR01(0201)	1/32W	-55~+155°C	15V	30V	-					± 25 ± 50
AR02(0402)	1/16W	-55~+155°C	25V	50V	10 Ω - 205K Ω					± 25 ± 50
AR03(0603)	1/16W	-55~+155°C	50V	100V	4.7 Ω - 332K Ω	4.7 Ω - 1M Ω	2 Ω - 1M Ω			± 25/ ± 50
AR05(0805)	1/10W	-55~+155°C	100V	200V	4.7 Ω - 511K Ω	4.7 Ω - 2M Ω	1 Ω - 2M Ω			± 25/ ± 50
AR06(1206)	1/8W	-55~+155°C	150V	300V	4.7 Ω - 1M Ω	4.7 Ω - 2.5M Ω	1 Ω - 2.5M Ω			± 25/ ± 50
AR10(1210)	1/5W									
AR20(2010)	1/4W	-55~+155°C	150V	300V	4.7 Ω - 1M Ω	4.7 Ω - 3M Ω	1 Ω - 3M Ω			± 25/ ± 50
AR25(2512)	1/2W									

Operating Voltage = $\sqrt{P \cdot R}$ or Max. operating voltage listed above, whichever is lower.
Overload Voltage = $2.5 \cdot \sqrt{P \cdot R}$ or Max. operating voltage listed above, whichever is lower.

■ Lower Resistance 1-10Ω. 較低阻值也可提供。