## ROYALOHM

### Thick Film Chip Resistors

Performance Specification								
Temperature Coefficient	0Ω1~ 0Ω99 1Ω~ 10Ω 10.1Ω~ 100Ω >100Ω		(0201: >100Ω≤±200PPM/ <sup>o</sup> C)					
Short Time Overload	±5%: ± (2.0% + 0. ±1%: ± (1.0% + 0.	-	``````````````````````````````````````					
Insulation Resistance	Min. 1,000 Mega 0	-						
Dieiectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.							
Terminal Bending	±(1.0% + 0.05Ω)M	ax						
Soldering Heat	±(1.0% + 0.05Ω)N	lax						
Solderability	Min. 95% coverag	e.						
Temperature Cycling	±5% : ±(1.0% + 0.0 ±1% : ±(0.5% + 0.0							
Humidity (Steady State)	$\pm 5\%$ : $\pm (3.0\% + 0.5\%)$							
	±1% : ±(0.5% + 0.1	1 Ω)Max						
Load Life in Humidity	±5% : ±(3.0% + 0.							
	±1% : ±(1.0% + 0.1	1 Ω)Max						
Load Life	±5% : ±(3.0% + 0.	1Ω)Max						
	±1% : ±(1.0% + 0.	1Ω)Max						

### Ordering Procedure: Ex.: 1206, 1/4W-S, +/-5%, 10Ω T/R-5000

1	2	0	6	S	4	J	0	1	0	0	Т	5	Е
Resistor Size: 0201, 0402, 0603, 0805, 1206, 1210, 1812, 2010, 2512 Wide Terminals: 0508, 0612, 1020, 1218, 1225 Wattage: Normal size: WH=1/32W, WM=1/20W, WG=1/16W, WA=1/10W, W8=1/8W, W4=1/4W, W2=1/2W, 1W=1W Small size: SA=1/10W-S, S8=1/8W-S, S4=1/4W-S, S3=1/3W-S, 07=3/4W-S, U2=1/2W-SS Applicable for Wide Terminal only: WJ=1.5W, 2W. 3W Tolerance: D = ±0.5% F = ±1%					.5%	<ul> <li>E- 1<sup>st</sup> 2<sup>nc</sup> fig 4<sup>th</sup></li> <li>E- 1<sup>st</sup> fig 4<sup>th</sup> ze "J E- "J U </li></ul>	ures of the indicates the 96 series: to 3 <sup>rd</sup> digits ures of the digit indica ros. " ~0.1, "K" <. 012J ~10	ue: are significant resistance ne number of zeros are significant					
1.) Sp on 2.) Sta	G = ±2% J = ±5% Note : 1.) Special resistance value, tolerance, T.C.R. requirement is availa on a case-to-case basis. 2.) Standard reel size = 7" 3.) 4", 10", & 13" reels are available upon request						T = Tape/Reel         Packing Qty:         1 = 1,000 pcs.       2 = 2,000 pcs.         4 = 4,000 pcs.       5 = 5,000 pcs.         A = 500 pcs.       C = 10,000 pc         D = 20,000 pcs.       E = 15,000 pc         F = 40,000 pcs.       G = 60,000 pc         Special Feature:       E = Lead (Pb) Free P         RoHS compliant						Type/



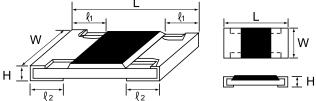
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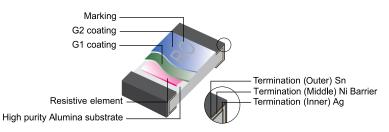
### Thick Film Chip Resistors

#### Features

- Small size and light weight
- Suitable for both wave and reflow soldering
- Reduction of assembly costs

### Dimension





222 222

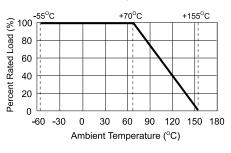
Туре	Power Rating at 70 <sup>o</sup> C	Max Max		Dielectric	Tolerance	Resistance Range	Dimension (mm)					
		Working Voltage/Current	Overload Voltage/Current	Withstanding Voltage	%		L	W	н	l1	l2	
0201 (0603)	1/20W	0.5A	1A	-	Jumper	<50m $\Omega$	0.60±0.03	0.30±0.03	0.23±0.03	0.10±0.05	0.15±0.05	
		25V	50V	-	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ						
0402 (1005)	1/16W	1A	2A		Jumper	<50mΩ		0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10	
		50V	100V	100V	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ	1.00±0.10					
	1/10W-S 1/16W	1A	2A		Jumper	<50mΩ	1.60±0.10	0.80 <sup>+0.15</sup> -0.10	0.45±0.10	0.30±0.20	0.30±0.20	
0603 (1608)		75V	150V	300V	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ						
		2A	5A		Jumper	<50mΩ	2.00±0.15	1.25 <sup>+0.15</sup> -0.10	0.55±0.10	0.40±0.20	0.40±0.20	
0805 (2012)	1/8W-S 1/10W	150V	300V	500V	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ						
		2A	10A		Jumper	<50mΩ	3.10±0.15	1.55 <sup>+0.15</sup> -0.10	0.55±0.10	0.45±0.20	0.45±0.20	
1206 (3216)	1/4W-S 1/8W	200V	400V	500V	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ						
	1/2W-SS 1/3W-S 1/4W	2A	10A		Jumper	<50m $\Omega$	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20	
1210 (3225)		200V	500V	500V	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ						
1812	1/2W 3/4W-S	2A	10A		Jumper	<50m $\Omega$	4.50±0.20	3.20±0.20	0.55±0.20	0.50±0.20	0.50±0.20	
		200V	500V	500V	±1% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ						
2010 (5025)	3/4W-S 1/2W	2A	10A		Jumper	<50mΩ	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20	
		200V	500V	500V	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ						
2512 (6432)	1W	2A	10A		Jumper	<50m $\Omega$						
		200V	500V	500V	±1% ±2% ±5%	1Ω~ 10ΜΩ 1Ω~ 10ΜΩ 1Ω~ 10ΜΩ	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.25	0.50±0.20	

#### Note:

- 1.) Metric information inside parenthesis.
- 2.) Standard Operating Temp ( $^{\circ}$ C): -55~ +155 3.) Standard: E-96 series: 0.5%, 1%

- $\begin{array}{c} \text{E-24 series: } 2\%, 5\% \\ \text{4.) Low resistance range } (0.1\Omega ~ 0.99\,\Omega) \text{ is also} \end{array}$ available for 0402, 0603, 0805, 1206, 1210, 2010 and 2512

#### **Derating Curve**





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