

Technische Daten

Technical Data



Dickfilmwiderstände der E12 Serie mit $\pm 1\%$ Widerstandstoleranz

Thick Film Resistor Series E12 with $\pm 1\%$ Resistance Tolerance

Temperaturkoeffizient des elektrischen Widerstandes / Temperature Coefficient:

1 Ω ~ 10 Ω ± 400 PPM/ $^{\circ}$ C
11 Ω ~ 100 Ω ± 200 PPM/ $^{\circ}$ C
>100 Ω ± 100 PPM/ $^{\circ}$ C (0201: 100 Ω \cong ± 200 PPM/ $^{\circ}$ C)

Isolationswiderstand / Insulation Resistance:

Min. 1,000 Mega Ohm

Spannungsfestigkeit / Dielectric Withstanding Voltage:

Max. 50 Volt

Lötwärmebeständigkeit / Soldering Heat:

Widerstandsänderung beträgt / Resistance change rate is $\pm (1.0\% + 0.05\Omega)$ Max

Lötbarkeit / Solderability:

Min. 95% Deckung / Coverage

Sortimentsbestückung / Assortment Contents:

100 Dickfilmwiderstände pro Wert / 100 Thick Film Resistors per value

1 Ohm	1,2 Ohm	1,5 Ohm	1,8 Ohm	2,2 Ohm	2,7 Ohm	3,3 Ohm	3,9 Ohm	4,7 Ohm	5,6 Ohm	6,8 Ohm	8,2 Ohm
10 Ohm	12 Ohm	15 Ohm	18 Ohm	22 Ohm	27 Ohm	33 Ohm	39 Ohm	47 Ohm	56 Ohm	68 Ohm	82 Ohm
100 Ohm	120 Ohm	150 Ohm	180 Ohm	220 Ohm	270 Ohm	330 Ohm	390 Ohm	470 Ohm	560 Ohm	680 Ohm	820 Ohm
1k Ohm	1,2k Ohm	1,5k Ohm	1,8k Ohm	2,2k Ohm	2,7k Ohm	3,3k Ohm	3,9k Ohm	4,7k Ohm	5,6k Ohm	6,8k Ohm	8,2k Ohm
10k Ohm	12k Ohm	15k Ohm	18k Ohm	22k Ohm	27k Ohm	33k Ohm	39k Ohm	47k Ohm	56k Ohm	68k Ohm	82k Ohm
100k Ohm	120k Ohm	150k Ohm	180k Ohm	220k Ohm	270k Ohm	330k Ohm	390k Ohm	470k Ohm	560k Ohm	680k Ohm	820k Ohm
1M Ohm	1,2M Ohm	1,5M Ohm	1,8M Ohm	2,2M Ohm	2,7M Ohm	3,3M Ohm	Blank	Blank	Blank	Blank	R0



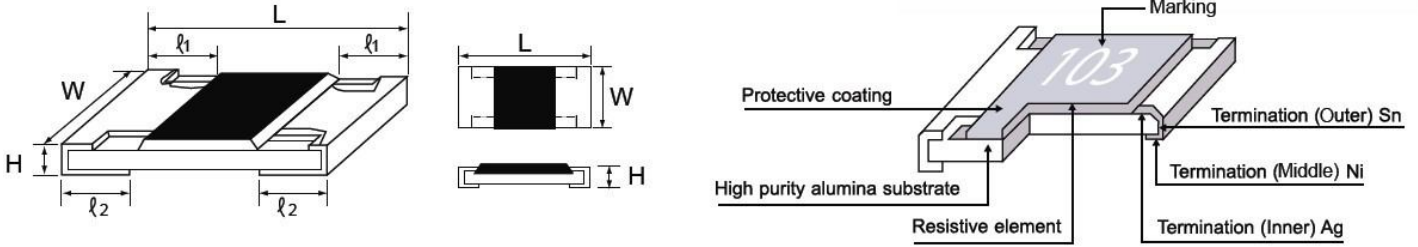
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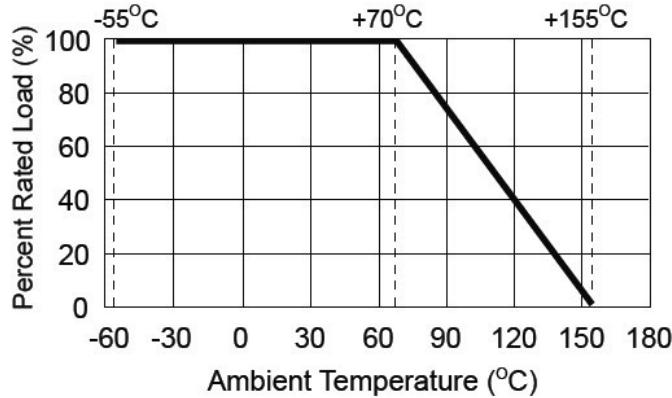
Eigenschaften / Features:

- Geringe Größe / Small size
- Geringes Gewicht / Light weight
- Geeignet für Wellen und Reflow- Löten / Suitable for wave and reflow soldering
- Betriebstemperatur / Standard Operating Temp. °C : -55 ~ +155

Abmessungen (Werte in nachfolgender Tabelle) / Dimensions:



Derating Curve:



Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tolerance %	Resistance Range	Dimension (mm)				
							L	W	H	l ₁	l ₂
0201 (0603)	1/20W	0.5A	1A	-	Jumper	<50mΩ	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%	10Ω ~ 1MΩ 10Ω ~ 1MΩ 1Ω ~ 1MΩ					
0402 (1005)	1/16W	1A	2A	-	Jumper	<50mΩ	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
		50V	100V	100V	±1% ±2% ±5%	10Ω ~ 1MΩ 1Ω ~ 10MΩ 1Ω ~ 10MΩ					
0603 (1608)	1/10W-S 1/16W	1A	2A	-	Jumper	<50mΩ	1.60±0.10	0.80 ^{+0.15} _{-0.10}	0.45±0.10	0.30±0.20	0.30±0.20
		50V	100V	300V	±1% ±2% ±5%	10Ω ~ 1MΩ 1Ω ~ 10MΩ 1Ω ~ 10MΩ					
(0805) (2012)	1/8W-S 1/10W	2A	4A	-	Jumper	<50mΩ	2.00±0.15	1.25 ^{+0.15} _{-0.10}	0.55±0.10	0.40±0.20	0.40±0.20
		150V	300V	500V	±1% ±2% ±5%	10Ω ~ 1MΩ 1Ω ~ 10MΩ 1Ω ~ 10MΩ					
1206 (3216)	1/4W-S 1/8W	2A	4A	-	Jumper	<50mΩ	3.10±0.15	1.55 ^{+0.15} _{-0.10}	0.55±0.10	0.45±0.20	0.45±0.20
		200V	400V	500V	±1% ±2% ±5%	10Ω ~ 1MΩ 1Ω ~ 10MΩ 1Ω ~ 10MΩ					
1210 (3225)	1/2W-SS 1/3W-S 1/4W	2A	4A	-	Jumper	<50mΩ	3.10±0.10	2.60±0.15	0.55±0.10	0.50±0.25	0.50±0.20
		200V	400V	500V	±1% ±2% ±5%	10Ω ~ 1MΩ 1Ω ~ 10MΩ 1Ω ~ 10MΩ					
2010 (5025)	3/4W-S 1/2W	2A	4A	-	Jumper	<50mΩ	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20
		200V	400V	500V	±1% ±2% ±5%	10Ω ~ 1MΩ 1Ω ~ 10MΩ 1Ω ~ 10MΩ					
2512 (6432)	1W	2.5A	5A	-	Jumper	<50mΩ	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.25	0.50±0.20
		200V	400V	500V	±1% ±2% ±5%	10Ω ~ 1MΩ 1Ω ~ 10MΩ 1Ω ~ 10MΩ					



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