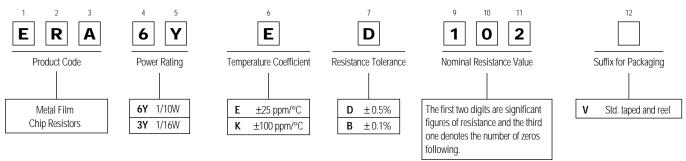
Metal Film Chip Resistors, Rectangular Type

Series: ERA

Features

- Small size and lightweight— PWB size reduction and lightweight products
- High reliability— Low T.C.R. and current noise, excellent non-linearity
- Matching with placement machines Taping packages for automatic placement machine
- Solderability Suitable for both reflow soldering and flow soldering
- Approved under the ISO-9001 system
- Conforming to IEC115-8, JIS C5223

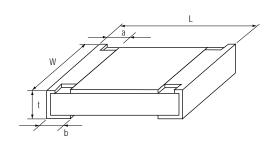
Explanation of Part Numbers



Construction

High purity alumina substrate Termination (Inner) Termination (Between) Termination (Outer)

Dimensions in mm (not to scale)



		Net Weight				
Part No.	L	W	а	b		0 pcs.)
ERA6Y	2.00 ±0.20	1.25 ±0.10	0.40 ± 0.25	0.40 ± 0.25	0.50 ±0.10	4g
ERA3Y	1.60 ±0.20	0.80 ± 0.20	$0.30^{\pm 0.20}$	$0.30^{\pm 0.20}$	0.45 ±0.10	2g



Ratings

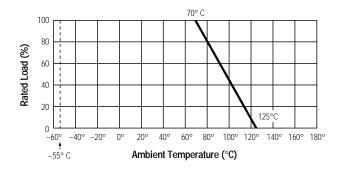
	Dewer Dating	Maximum	Maximum	Resistive Tolerance (%)	Resistance Range		T.C.R.	Standard
Part No.	Power Rating at 70°C	Maximum RCWV*	Overload Voltage**		min.	max.	(ppm/°C)	Resistance Values
		100 V	200 V	± 0.5	100	100K	± 25	E-24
	1/10 \				110K	1M	± 100	
ERA6Y	1/10 W			± 0.1	560	100K	± 25	
					110K	1M	± 100	
		/16 W 75 V	150 V	± 0.5	100	33K	± 25	E-24
ED A OV	1/1/ \\				36K	330K	± 100	
ERA3Y	1/16 VV			± 0.1	560	33K	± 25	
					36K	330K	± 100	

* Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{Rated Power x Resistance Value}$, or max. RCWV listed above, whichever is less.

** Short-time Overload Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or max. Overload Voltage listed above whichever is less.

Power Derating Curve

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve right.

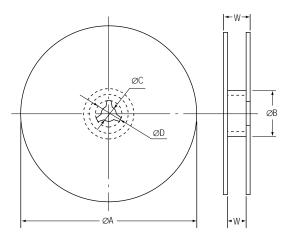


Packaging Methods

Standard Quantity

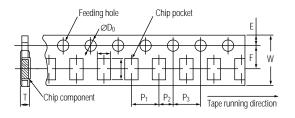
Туре	Thickness	Paper Taping	
ERA6Y	0.5 mm	5000 pcs./reel	
ERA3Y	0.45 mm	5000 pcs./reel	

Taping Reel



Туре	øA	øВ	øC	øD	W	Т
6Y	180.0 +0 -3.0	60 min	13.0 ^{±1.0}	33.0 ^{±5.0}	10.0 ^{±1.0}	12 0 ^{±2.0}
3Y	100.0 -3.0	00 11111.	13.0	33.0	10.0	12.0

Paper Taping

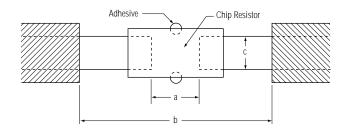


Туре	Α	В	W	F	E
6Y	1.60 ^{±0.15}	2.40 ^{±2.00}	8.00 ^{±0.20}	3.50 ^{±0.05}	1.75 ^{±0.10}
3Y	1.10 ^{±0.10}	1.90 ^{±0.10}	0.00	5.50	1.75
Туре	P ₁	P ₂	P ₀	øD ₀	Т
6Y	4.00 ^{±0.10}	2.00 ^{±0.05}	4.00 ^{±0.10}	1.50 +0.50	$0.84^{\pm 0.05}$
3Y	4.00	2.00	4.00	1.50 _0	$0.64^{\pm 0.05}$

Design and specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety issues arises from this product, please inform us immediately for technical consultation.

Safety Precautions

In the case of flow soldering, the land width must be smaller than the Chip Resistor width to properly control the solder amount properly. Generally, the land width should be chip resistor width (W) 0.7 to 0.8 times the width of chip resistor. In the case of reflow soldering, solder amount can be adjusted; therefore the land width should be set to 1.0 to 1.3 times chip resistor width (W).



	_	Dimensions	
Part No.	а	b	С
ERA6Y	1.0 to 1.4	3.2 to 3.8	0.9 to 1.4
ERA3Y	0.7 to 0.9	2.0 to 2.2	0.8 to 1.0

1. Rated Power and Ambient Temperature

Keep the rated power and ambient temperature within the specified derating curve.

Place and fit resistors and other components on board, taking into consideration of temperature rise due to approaching of these components with each other.

2. External Shock

Mechanical shock during automatic mounting or handling of board after chip being mounted may cause break, flaw, or fall-off of paint film of resistor that may impair initial characteristics.

Avoid nipping of resistor with hard tool (a pair of pliers or tweezers) as it may damage protective film or electrode of resistor and may affect resistor's performance.

3. Application of Pulse

When pulse is applied to a resistor, the peak value of pulse shall be within rated value.

- 4. The resistor is neither non-combustible nor flameretardant.
- 5. When soldering with soldering iron, never touch the body of the chip resistor with the tip of the soldering iron. When using the soldering iron with a tip at high temperature, solder for a time as short as possible (three seconds or less up to 350°C).
- 6. Avoid immersion of chip resistor in solvent for a long time. Use solvent after the effect of immersion is confirmed.
- 7. Do not use the product in humid atmospheres.