



**THE DATASHEET OF  
ESR10EZPF2701**



### ●Features

- 1) Exclusive resistive element pattern and laser trimming technology results in significantly improved surge resistance characteristics.
- 2) 2kV to 5kV electrostatic discharge resistance.
- 3) Superior power ratings.
- 4) ROHM resistors have obtained ISO9001 / IATF16949 certification.
- 5) Corresponds to AEC-Q200.



### ●Products list

Part No.	Size		Rated power (W)	Rated ambient temperature (°C)	Rated terminal temperature (°C)	Limiting element voltage (V)	Temperature coefficient (ppm/°C)	Resistance tolerance (%)	Resistance range (Ω)	Operating temperature range (°C)	Automotive Grade Available (AEC-Q200)
	(mm)	(inch)									
ESR01	1005	0402	0.2	70	-	50	±100	F ( ±1% )	10 ≤ R < 1M (E24/96 series)	-55 ~ +155	Yes
							±100	F ( ±1% )	1M ≤ R ≤ 2.2M (E24 series)		
							+500/-250	J ( ±5% )	1 ≤ R < 10 (E24 series)		
							±200	J ( ±5% )	10 ≤ R ≤ 10M (E24 series)		
ESR03	1608	0603	0.25	70	-	150	±100	D ( ±0.5% )	10 ≤ R ≤ 1M (E24/96 series)	-55 ~ +155	Yes
							±200	F ( ±1% )	1 ≤ R < 10 (E24/96 series)		
							±100	F ( ±1% )	10 ≤ R ≤ 10M (E24/96 series)		
							±200	J ( ±5% )	1 ≤ R ≤ 10M (E24 series)		
ESR10	2012	0805	0.5	70	115	150	±100	D ( ±0.5% )	10 ≤ R < 1k (E24/96 series)	-55 ~ +155	Yes
							±100	F ( ±1% )	1 ≤ R < 1k (E24/96 series)		
			±200		J ( ±5% )		1 ≤ R < 1k (E24 series)				
			0.4		125		±100	D ( ±0.5% )	1k ≤ R ≤ 1M (E24/96 series)		
							±100	F ( ±1% )	1k ≤ R ≤ 10M (E24/96 series)		
			±200		J ( ±5% )		1k ≤ R ≤ 10M (E24 series)				
ESR18	3216	1206	0.75	70	105	200	±100	D ( ±0.5% )	10 ≤ R < 1k (E24/96 series)	-55 ~ +155	Yes
							±100	F ( ±1% )	1 ≤ R < 1k (E24/96 series)		
			±200		J ( ±5% )		1 ≤ R < 1k (E24 series)				
			0.5		125		±100	D ( ±0.5% )	1k ≤ R ≤ 1M (E24/96 series)		
							±100	F ( ±1% )	1k ≤ R ≤ 10M (E24/96 series)		
			±200		J ( ±5% )		1k ≤ R ≤ 10M (E24 series)				
ESR25	3225	1210	1	70	95	200	±100	D ( ±0.5% )	10 ≤ R ≤ 1M (E24/96 series)	-55 ~ +155	Yes
							±100	F ( ±1% )	1 ≤ R ≤ 10M (E24/96 series)		
							±200	J ( ±5% )	1 ≤ R ≤ 10M (E24 series)		
							±200	J ( ±5% )	1 ≤ R ≤ 10M (E24 series)		

Design and specifications are subject to change without notice. Carefully check the specification sheet supplied with the product before using or ordering it.

When rated voltage exceeds the limiting element voltage, the limiting element voltage shall be the rated voltage.

$$\text{Rated voltage} = \sqrt{\text{Rated power} \times \text{Resistance}}$$

E24: Standard products, E96: Build to order.

### ●Part Number Description

ESR	10	EZP	J	100																																																																																	
<table border="1"> <tr><th>Part No.</th></tr> <tr><td>ESR</td></tr> <tr><td>Anti-surge chip resistors</td></tr> </table>	Part No.	ESR	Anti-surge chip resistors	<table border="1"> <tr><th>Size</th><th>(mm)</th><th>[inch]</th></tr> <tr><td>01</td><td>(1005)</td><td>[0402]</td></tr> <tr><td>03</td><td>(1608)</td><td>[0603]</td></tr> <tr><td>10</td><td>(2012)</td><td>[0805]</td></tr> <tr><td>18</td><td>(3216)</td><td>[1206]</td></tr> <tr><td>25</td><td>(3225)</td><td>[1210]</td></tr> </table>	Size	(mm)	[inch]	01	(1005)	[0402]	03	(1608)	[0603]	10	(2012)	[0805]	18	(3216)	[1206]	25	(3225)	[1210]	<table border="1"> <tr><th colspan="4">Packaging specifications code</th></tr> <tr><th>Part No.</th><th>Code</th><th>Packaging specifications</th><th>Quantity / Reel</th></tr> <tr><td>ESR01</td><td>MZP</td><td>Paper tape ( 2mmPitch)</td><td>10,000</td></tr> <tr><td>ESR03</td><td>EZP</td><td>Paper tape ( 4mmPitch)</td><td>5,000</td></tr> <tr><td>ESR10</td><td>EZP</td><td>Paper tape ( 4mmPitch)</td><td>5,000</td></tr> <tr><td>ESR18</td><td>EZP</td><td>Paper tape ( 4mmPitch)</td><td>5,000</td></tr> <tr><td>ESR25</td><td>JZP</td><td>Embossed tape ( 4mmPitch)</td><td>4,000</td></tr> </table>	Packaging specifications code				Part No.	Code	Packaging specifications	Quantity / Reel	ESR01	MZP	Paper tape ( 2mmPitch)	10,000	ESR03	EZP	Paper tape ( 4mmPitch)	5,000	ESR10	EZP	Paper tape ( 4mmPitch)	5,000	ESR18	EZP	Paper tape ( 4mmPitch)	5,000	ESR25	JZP	Embossed tape ( 4mmPitch)	4,000	<table border="1"> <tr><th>Resistance tolerance</th></tr> <tr><td>D(±0.5%)</td></tr> <tr><td>F (±1%)</td></tr> <tr><td>J (±5%)</td></tr> </table>	Resistance tolerance	D(±0.5%)	F (±1%)	J (±5%)	<table border="1"> <tr><th colspan="2">Nominal resistance</th></tr> <tr><td colspan="2">Resistance code, 3 or 4 digits.</td></tr> <tr><td>Resistance tolerance</td><td>Resistance code</td></tr> <tr><td>D, F</td><td>: 4 digits</td></tr> <tr><td>J</td><td>: 3 digits</td></tr> <tr><td colspan="2">EX)</td></tr> <tr><td>1Ω</td><td>= 1R00 (±1%)</td></tr> <tr><td></td><td>1R0 (±5%)</td></tr> <tr><td>9.1Ω</td><td>= 9R10 (±1%)</td></tr> <tr><td></td><td>9R1 (±5%)</td></tr> <tr><td>10Ω</td><td>= 10R0 (±0.5%, ±1%)</td></tr> <tr><td></td><td>100 (±5%)</td></tr> <tr><td>1MΩ</td><td>= 1004 (±0.5%, ±1%)</td></tr> <tr><td></td><td>105 (±5%)</td></tr> </table>	Nominal resistance		Resistance code, 3 or 4 digits.		Resistance tolerance	Resistance code	D, F	: 4 digits	J	: 3 digits	EX)		1Ω	= 1R00 (±1%)		1R0 (±5%)	9.1Ω	= 9R10 (±1%)		9R1 (±5%)	10Ω	= 10R0 (±0.5%, ±1%)		100 (±5%)	1MΩ	= 1004 (±0.5%, ±1%)		105 (±5%)
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●Chip resistor dimensions and markings

■ESR01/03



■ESR10/18/25



<Marking method>

There are three or four digits used for the calculation number. And "R" is used for the decimal point.

(Unit : mm)

Part No.	(mm)	(inch)	L	W	t	a	b	Marking existence
ESR01	1005	0402	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.25+0.05 -0.1	No*
ESR03	1608	0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20	No*
ESR10	2012	0805	2.00±0.10	1.25±0.10	0.55±0.10	0.30±0.20	0.40±0.20	Yes
ESR18	3216	1206	3.20±0.15	1.60±0.15	0.55±0.10	0.30±0.25	0.50±0.25	Yes
ESR25	3225	1210	3.20±0.15	2.50±0.15	0.55±0.10	0.30±0.25	0.50±0.25	Yes

\* : Only with square mark

●Land pattern example



(Unit : mm)

Dimensions Part No.	A	B	C	D
ESR01	0.5	1.3	0.5	0.4
ESR03	1.0	2.0	0.8	0.5
ESR10	1.2	2.6	1.15	0.7
ESR18	2.2	4.0	1.5	0.9
ESR25	2.2	4.0	2.3	0.9

●Derating curve

■ESR01/03

For resistors operated at the ambient temperature in excess 70°C, the load shall be derated in accordance with Fig.1.

■ESR10

For resistors operated at the ambient temperature in excess 70°C or terminal temperature\*1 in excess the rated terminal temperature, load shall be derated in accordance with Fig.1 and Fig.2.

■ESR18

For resistors operated at the ambient temperature in excess 70°C or terminal temperature\*1 in excess the rated terminal temperature, load shall be derated in accordance with Fig.1 and Fig.3.

■ESR25

For resistors operated at the ambient temperature in excess 70°C or terminal temperature in excess the rated terminal temperature\*1, load shall be derated in accordance with Fig.1 and Fig.4.

\*1 : The measurement part of terminal temperature is fillet's surface with load.

Fig.1< Ambient temperature>

■ ESR01/03/10/18/25



Fig.2< Terminal temperature>

■ ESR10



Fig.3< Terminal temperature>

■ ESR18



Fig.4< Terminal temperature>

■ ESR25



●Characteristics

Test items	Guaranteed value	Test conditions
Resistance	See P.1	20°C
Variation of resistance with temperature	See P.1	Measurement : +25/-55, +25/+125°C
Overload	±(2.0%+0.1Ω)	Test condition : see table 1
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.	Rosin-ethanol solution(25% mass) Soldering condition : 245±5°C Duration of immersion : 2.0±0.5s
Resistance to soldering heat	±(1.0%+0.05Ω) No remarkable abnormality on the appearance.	Soldering condition : 260±5°C Duration of immersion : 10±1s
Rapid change of temperature	±(1.0%+0.05Ω)	Test temp : -55°C~+125°C 1,000cycles
Temperature humidity storage	±(3.0%+0.1Ω)	85°C, 85% (Relative humidity) Test time : 1,000h
Endurance at 70°C	±(3.0%+0.1Ω)	Test condition : see table 2
Resistance to solvent	±(1.0%+0.05Ω)	23±5°C Immersion cleaning, Solvent : 2-propanol
Bend strength of the end face plating	±(1.0%+0.05Ω) Without mechanical damage such as breaks.	Endurance with 90mm width Deflection : 3mm
Static electric characteristics	±(5.0%+0.05Ω)	EIAJ ED-4701/300 Test method 304 Voltage : 2kV(ESR01) 3kV(ESR03/10/18) 5kV(ESR25) C : 100pF R : 1.5kΩ Apply cycle : Once

Compliance Standards : IEC60115-1 / IEC60115-8  
JIS C 5201-1 / JIS C 5201-8

Table 1. Test condition of overload

Part No.	Resistance range (Ω)	Test condition
ESR01	1 ≤ R ≤ 10M	Test voltage is the smaller one of ① or ② ① Rated voltage(current)×2.0 ② Maximum overload voltage*2 Test time : 2s
ESR03		Test voltage is the smaller one of ① or ② ① Rated voltage(current)×2.5 ② Maximum overload voltage*2 Test time : 2s
ESR10	1 ≤ R < 1k	Rated voltage (Current)×2.0 Test time : 5s
	1k ≤ R ≤ 10M	Test voltage is the smaller one of ① or ② ① Rated voltage(current)×2.5 ② Maximum overload voltage*2 Test time : 5s
ESR18	1 ≤ R < 1k	Rated voltage (Current)×2.0 Test time : 5s
	1k ≤ R ≤ 10M	Test voltage is the smaller one of ① or ② ① Rated voltage(current)×2.5 ② Maximum overload voltage*2 Test time : 5s
ESR25	1 ≤ R ≤ 10M	Test voltage is the smaller one of ① or ② ① Rated voltage(current)×2.0 ② Maximum overload voltage*2 Test time : 5s

Table 2. Test condition of endurance at 70°C

Part No.	Resistance range (Ω)	Test condition
ESR01	1 ≤ R ≤ 10M	Ambient temperature : 70°C Rated power : 1.5h ON, 0.5h OFF Test time : 1,000h
ESR03		Ambient temperature : 70°C Rated power : 1.5h ON, 0.5h OFF Test time : 1,000h
ESR10	1 ≤ R < 1k	Ambient temperature : 70°C Terminal temperature : 115°C Rated power : 1.5h ON, 0.5h OFF Test time : 1,000h
	1k ≤ R ≤ 10M	Ambient temperature : 70°C Terminal temperature : 125°C Rated power : 1.5h ON, 0.5h OFF Test time : 1,000h
ESR18	1 ≤ R < 1k	Ambient temperature : 70°C Terminal temperature : 105°C Rated power : 1.5h ON, 0.5h OFF Test time : 1,000h
	1k ≤ R ≤ 10M	Ambient temperature : 70°C Terminal temperature : 125°C Rated power : 1.5h ON, 0.5h OFF Test time : 1,000h
ESR25	1 ≤ R ≤ 10M	Ambient temperature : 70°C Terminal temperature : 95°C Rated power : 1.5h ON, 0.5h OFF Test time : 1,000h

\*2Maximum overload voltage (Test voltage)

ESR01	ESR03	ESR10	ESR18	ESR25
100V	200V	200V	400V	400V

●Tape dimensions

■Paper tape

(Unit : mm)



Part No.	W	F	E	A0	B0
<b>ESR01</b>	8.0±0.3	3.5±0.05	1.75±0.1	0.7±0.1	1.2±0.1
<b>ESR03</b>	8.0±0.3	3.5±0.05	1.75±0.1	1.1±0.1	1.9±0.1
<b>ESR10</b>	8.0±0.3	3.5±0.05	1.75±0.1	1.65+0.2 -0.1	2.4+0.2 -0.1
<b>ESR18</b>	8.0±0.3	3.5±0.05	1.75±0.1	1.95+0.10 -0.05	3.5+0.15 -0.05

Part No.	D0	P0	P1	P2	T2
<b>ESR01</b>	Φ1.5+0.1 0	4.0±0.1	2.0±0.05	2.0±0.05	MAX1.1
<b>ESR03</b>	Φ1.5+0.1 0	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
<b>ESR10</b>	Φ1.5+0.1 0	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1
<b>ESR18</b>	Φ1.5+0.1 0	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1

■Embossed tape

(Unit : mm)



Part No.	W	F	E	A0	B0
<b>ESR25</b>	8.0±0.3	3.5±0.05	1.75±0.1	3.0±0.1	3.5±0.1
	D0	P0	P1	P2	K
	Φ1.5 +0.1 0	4.0±0.1	4.0±0.1	2.0±0.05	MAX1.1

●Reel dimensions

Using two kinds of reels for taping.



(Unit : mm)

Part No.	A	B	C	D
<b>ESR01</b>	Φ180 0 -1.5	Φ60 +1.0 0	9 +1.0 0	Φ13±0.2
<b>ESR03</b>				
<b>ESR10</b>				
<b>ESR18</b>				
<b>ESR25</b>				

# Notice

## Precaution on using ROHM Products

1. If you intend to use our Products in devices requiring extremely high reliability (such as medical equipment <sup>(Note 1)</sup>, aircraft/spacecraft, nuclear power controllers, etc.) and whose malfunction or failure may cause loss of human life, bodily injury or serious damage to property ("Specific Applications"), please consult with the ROHM sales representative in advance. Unless otherwise agreed in writing by ROHM in advance, ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of any ROHM's Products for Specific Applications.

(Note1) Medical Equipment Classification of the Specific Applications

JAPAN	USA	EU	CHINA
CLASS III	CLASS III	CLASS II b	CLASS III
CLASS IV		CLASS III	

2. ROHM designs and manufactures its Products subject to strict quality control system. However, semiconductor products can fail or malfunction at a certain rate. Please be sure to implement, at your own responsibilities, adequate safety measures including but not limited to fail-safe design against the physical injury, damage to any property, which a failure or malfunction of our Products may cause. The following are examples of safety measures:
  - [a] Installation of protection circuits or other protective devices to improve system safety
  - [b] Installation of redundant circuits to reduce the impact of single or multiple circuit failure
3. Our Products are not designed under any special or extraordinary environments or conditions, as exemplified below. Accordingly, ROHM shall not be in any way responsible or liable for any damages, expenses or losses arising from the use of any ROHM's Products under any special or extraordinary environments or conditions. If you intend to use our Products under any special or extraordinary environments or conditions (as exemplified below), your independent verification and confirmation of product performance, reliability, etc. prior to use, must be necessary:
  - [a] Use of our Products in any types of liquid, including water, oils, chemicals, and organic solvents
  - [b] Use of our Products outdoors or in places where the Products are exposed to direct sunlight or dust
  - [c] Use of our Products in places where the Products are exposed to sea wind or corrosive gases, including Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - [d] Use of our Products in places where the Products are exposed to static electricity or electromagnetic waves
  - [e] Use of our Products in proximity to heat-producing components, plastic cords, or other flammable items
  - [f] Sealing or coating our Products with resin or other coating materials
  - [g] Use of our Products without cleaning residue of flux (Exclude cases where no-clean type fluxes is used. However, recommend sufficiently about the residue.); or Washing our Products by using water or water-soluble cleaning agents for cleaning residue after soldering
  - [h] Use of the Products in places subject to dew condensation
4. The Products are not subject to radiation-proof design.
5. Please verify and confirm characteristics of the final or mounted products in using the Products.
6. In particular, if a transient load (a large amount of load applied in a short period of time, such as pulse, is applied, confirmation of performance characteristics after on-board mounting is strongly recommended. Avoid applying power exceeding normal rated power; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.
7. De-rate Power Dissipation depending on ambient temperature. When used in sealed area, confirm that it is the use in the range that does not exceed the maximum junction temperature.
8. Confirm that operation temperature is within the specified range described in the product specification.
9. ROHM shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.

## Precaution for Mounting / Circuit board design

1. When a highly active halogenous (chlorine, bromine, etc.) flux is used, the residue of flux may negatively affect product performance and reliability.
2. In principle, the reflow soldering method must be used on a surface-mount products, the flow soldering method must be used on a through hole mount products. If the flow soldering method is preferred on a surface-mount products, please consult with the ROHM representative in advance.

For details, please refer to ROHM Mounting specification

**Precautions Regarding Application Examples and External Circuits**

1. If change is made to the constant of an external circuit, please allow a sufficient margin considering variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.
2. You agree that application notes, reference designs, and associated data and information contained in this document are presented only as guidance for Products use. Therefore, in case you use such information, you are solely responsible for it and you must exercise your own independent verification and judgment in the use of such information contained in this document. ROHM shall not be in any way responsible or liable for any damages, expenses or losses incurred by you or third parties arising from the use of such information.

**Precaution for Electrostatic**

This Product is electrostatic sensitive product, which may be damaged due to electrostatic discharge. Please take proper caution in your manufacturing process and storage so that voltage exceeding the Products maximum rating will not be applied to Products. Please take special care under dry condition (e.g. Grounding of human body / equipment / solder iron, isolation from charged objects, setting of Ionizer, friction prevention and temperature / humidity control).

**Precaution for Storage / Transportation**

1. Product performance and soldered connections may deteriorate if the Products are stored in the places where:
  - [a] the Products are exposed to sea winds or corrosive gases, including Cl<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, SO<sub>2</sub>, and NO<sub>2</sub>
  - [b] the temperature or humidity exceeds those recommended by ROHM
  - [c] the Products are exposed to direct sunshine or condensation
  - [d] the Products are exposed to high Electrostatic
2. Even under ROHM recommended storage condition, solderability of products out of recommended storage time period may be degraded. It is strongly recommended to confirm solderability before using Products of which storage time is exceeding the recommended storage time period.
3. Store / transport cartons in the correct direction, which is indicated on a carton with a symbol. Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.
4. Use Products within the specified time after opening a humidity barrier bag. Baking is required before using Products of which storage time is exceeding the recommended storage time period.

**Precaution for Product Label**

A two-dimensional barcode printed on ROHM Products label is for ROHM's internal use only.

**Precaution for Disposition**

When disposing Products please dispose them properly using an authorized industry waste company.

**Precaution for Foreign Exchange and Foreign Trade act**

Since concerned goods might be fallen under listed items of export control prescribed by Foreign exchange and Foreign trade act, please consult with ROHM in case of export.

**Precaution Regarding Intellectual Property Rights**

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-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management