Micro Chip Fuse

Type: **ERBRD**
ERBRE
ERBRG

Features

- Small size
- Fast-acting and withstanding in-rush current characteristics
- RoHS compliant

Approved Safety Standards

UL248-14 : File No.E194052
c-UL C22.2 No.248-14 : File No.E194052

Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10
E	R	B	R	D	1	R	0	0	X

Product Code	
Micro Chip Fuse	

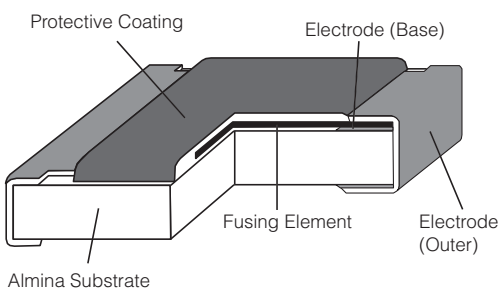
Structure	
R	Rectangular type

Product shape	
D	0402 inch size (1.0 mm×0.5 mm)
E	0603 inch size (1.6 mm×0.8 mm)
G	1206 inch size (3.2 mm×1.6 mm)

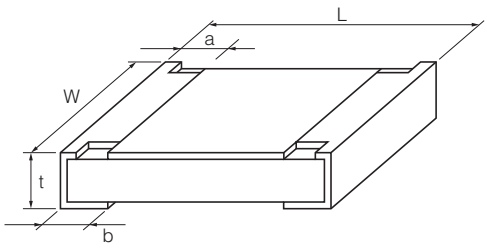
Rated Current (A)			
0R25	0.25 A	1R40	1.4 A
0R31	0.315 A	1R50	1.5 A
0R37	0.375 A	2R00	2.0 A
0R50	0.50 A	2R50	2.5 A
0R63	0.63 A	3R00	3.0 A
0R75	0.75 A	3R15	3.15 A
1R00	1.0 A	4R00	4.0 A
1R25	1.25 A	5R00	5.0 A

Code	Packaging	Part No.
X	Pressed Carrier Taping 2 mm pitch, 10,000 pcs.	ERBRD
V	Punched Carrier Taping 4 mm pitch, 5,000 pcs.	ERBRE ERBRG

Construction



Dimensions in mm (not to scale)



Part No. (inch size)	Dimensions (mm)					Mass (Weight) (g/1000 pcs.)
	L	W	a	b	t	
ERBRD (0402)	$1.00^{\pm0.10}$	$0.50^{+0.10}_{-0.05}$	$0.15^{\pm0.10}$	$0.25^{\pm0.10}$	$0.39^{\pm0.10}$	0.7
ERBRE (0603)	$1.60^{\pm0.15}$	$0.80^{+0.15}_{-0.05}$	$0.24^{\pm0.15}$	$0.30^{\pm0.15}$	$0.54^{\pm0.10}$	2.2
ERBRG (1206)	$3.20^{\pm0.20}$	$1.60^{\pm0.15}$	$0.30^{\pm0.20}$	$0.55^{\pm0.20}$	$0.65^{\pm0.10}$	10

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

Ratings

● 0402 inch /1005 mm size : Type ERBRD

Part No.	ERBRD□R□□X													
	0R25	0R31	0R37	0R50	0R63	0R75	1R00	1R25	1R50	2R00	2R50	3R00	4R00	5R00
Rated Current (A)	0.25	0.315	0.375	0.5	0.63	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
Marking Code	V	X	Y	F	6	G	H	J	K	N	O	P	S	T
Internal R (mΩ) at 25 °C max.	700	520	440	310	220	190	125	82	70	53	42	37	24	19.5
Fusing Current/Fusing Time (at 25 °C)	Rated Current ×100 % / 4 hours min.													
	Rated Current ×200 % / 5 seconds max.													
	Rated Current ×300 % / 0.2 seconds max.													
Rated Voltage (Open Circuit Voltage) (V) DC	32													
Interrupting Rating at Rated Voltage (A)	35													
Category Temp. Range (°C)	−40 to +125													

● 0603 inch / 1608 mm size : Type ERBRE

Part No.	ERBRE□R□□V											
	0R50	0R75	1R00	1R25	1R40	1R50	2R00	2R50	3R00	3R15	4R00	5R00
Rated Current (A)	0.5	0.75	1.0	1.25	1.4	1.5	2.0	2.5	3.0	3.15	4.0	5.0
Marking Code	F	G	H	J	14	K	N	O	P	31	S	T
Internal R (mΩ) at 25 °C max.	330	190	125	94	85	72	51	40	33	32	22	19
Fusing Current/Fusing Time (at 25 °C)	Rated Current ×100 % / 4 hours min.											
	Rated Current ×200 % / 5 seconds max.											
	Rated Current ×300 % / 0.2 seconds max.											
Rated Voltage (Open Circuit Voltage) (V) DC	32											
Interrupting Rating at Rated Voltage (A)	50											
Category Temp. Range (°C)	−40 to +125											

● 1206 inch / 3216 mm size : Type ERBRG

Part No.	ERBRG□R□□V								
	0R50	0R75	1R00	1R25	1R50	2R00	2R50	3R00	4R00
Rated Current (A)	0.5	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0
Marking Code	F	G	H	J	K	N	O	P	S
Internal R (mΩ) at 25 °C max.	560	340	210	175	115	85	65	45	35
Fusing Current/Fusing Time (at 25 °C)	Rated Current ×100 % / 4 hours min.								
	Rated Current ×200 % / 5 seconds max.								
	Rated Current ×300 % / 0.2 seconds max.								
Rated Voltage (Open Circuit Voltage) (V) DC	63						32		
Interrupting Rating at Rated Voltage (A)	50								
Category Temp. Range (°C)	−40 to +125								

✻ The thin type is available about 1005 (0402 inch) size. Please contact us for details.
✻ Please contact us when another rated current is needed.

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