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### **Circuit Protector (Micro Chip Fuse)**

Type: **ERB** 





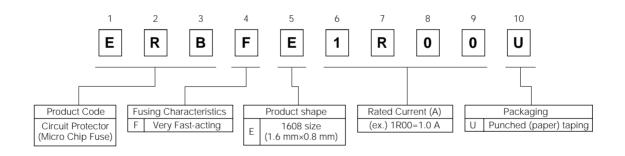
#### Features

- Small size (1608)
- Sharp fusing characteristics
- Pb free

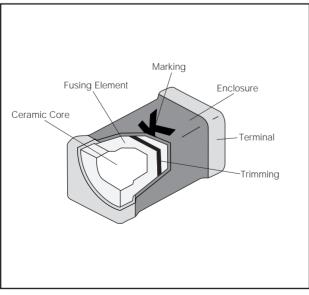
#### Approved Safety Standards

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

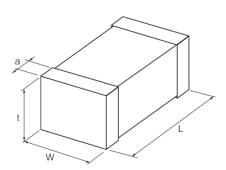
#### Explanation of Part Numbers



#### Construction



Dimensions in mm (not to scale)



Type	Dimensions (mm)					
Туре	L	W	а	t		
ERBFE	1.60 <sup>±0.15</sup>	0.80 <sup>±0.15</sup>	0.30 <sup>±0.20</sup>	0.70+0.15		

#### Rev.02/04

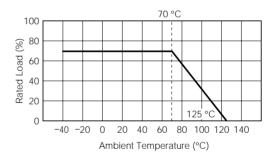
### Panasonic



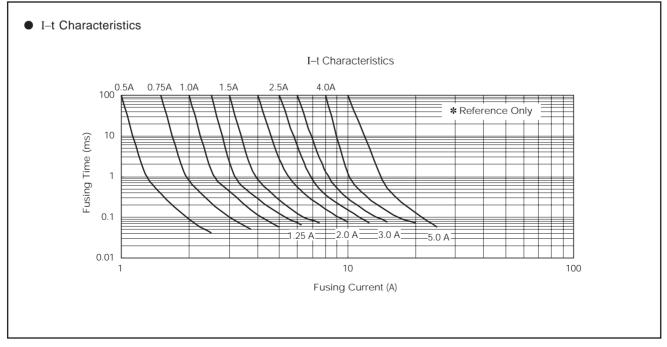
	ERBFE									
Part No.	0R50	0R75	1R00	1R25	1R50	2R00	2R50	3R00	4R00	5R00
Rated Current (A)	0.5	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
Marking Code	F	G	Н	J	К	Ν	0	Ρ	S	Т
Internal R (m $\Omega$ ) at 25 °C max.	330	185	120	90	70	50	38	31	22	17
Fusing Current/Fusing Time (at 25 °C)	Rated Current × 100 % / 4 hours min.									
	Rated Current × 200 % / 1 second max.									
	Rated Current × 300 % / 0.2 seconds max.									
Rated Voltage (Open Circuit Voltage)	32 VDC					24 '	VDC			
Interrupting Rating (at Rated voltage)	50 A									
Category Temp. Range (Operating Temp. Range)	–40 °C to 125 °C									

#### Power Derating Curve

- Current rating shall be derated in accordance with the figure on the right.
- This current derating curve is for fusing characterisics.

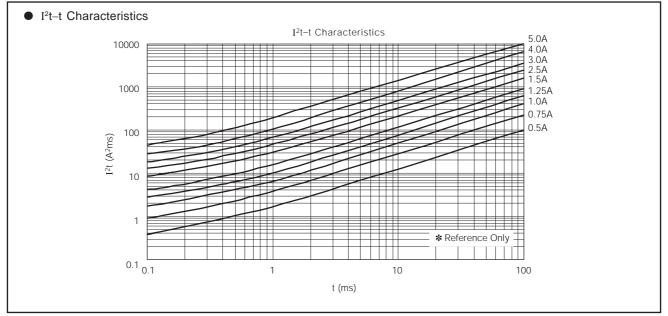


#### Fusing Characteristics (25 °C typical)



### Panasonic

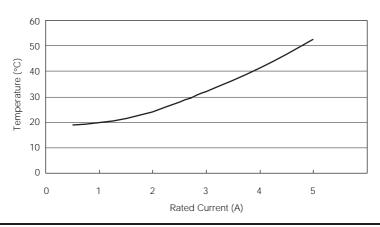
#### ■ Fusing Characteristics (25 °C typical)



#### Performance Specifications

Characterisics	Limits	Test Methods
Resistance to Soldering Heat		260 °C × 10 sec
Temperature Cycling		–40 °C to 125 °C/30 min./5 cycles
Vibration Low Frequency	ΔR : within±10 % No evidence of mechanical	Frequency range: 10 Hz→55Hz→10Hz/1 min. Amplitude 1.5 mm
Load Life	damage	1000 hours (1.5 h ON, 0.5 OFF) Rated Power × 70 %, at 70 °C
Humidity		60 °C, 95 %RH, 1000 hours
Solderability	90 % coverage min.	235 °C × 5 sec
Resistance to Solvent	No evidence of protective coatings	IPA 10 min.

#### Hot Spot Temperature (Reference)



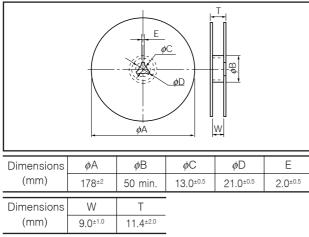
## Panasonic

#### Packaging Specifications

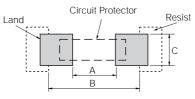
#### • Standard Quantity

Туре	Thickness (mm)	Punched (Paper) Taping
ERBFE	0.7	5000 pcs./ Reel

#### Taping Reel



#### Recommend Land Pattern



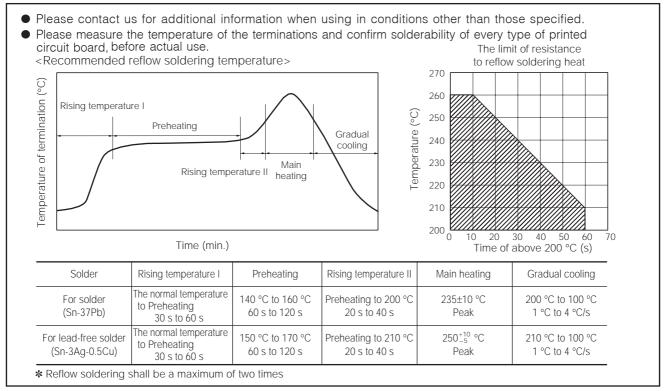
Sprocket hole Compartment $-\phi$ J $\phi$ J T Chip Compartment F G H Taping running direction					
Dimensions	А	В	С	D	E
(mm)	1.00 <sup>±0.10</sup>	1.80 <sup>±0.20</sup>	8.00 <sup>±0.20</sup>	$3.50^{\pm 0.05}$	1.75 <sup>±0.10</sup>
	_	-			-
Dimensions	F	G	H	φJ	
(mm)	4.00 <sup>±0.10</sup>	2.00 <sup>±0.05</sup>	4.00 <sup>±0.10</sup>	1.50+0.10	0.85 <sup>±0.07</sup>

Paper Taping

Туре	Dimensions (mm)					
туре	А	В	С			
ERBFE	0.8 to 1.0	2.1 to 2.3	0.7 to 0.9			

#### Soldering Conditions

Precautions and recommendations are described below.



#### <Repair with hand soldering>

- Allow enough preheating with a blast of hot air or similar method. Use a soldering iron with tip temperature 350 °C or less. Solder for 3 seconds or less for each termination.
- Never touch this product with the tip of a soldering iron.