

# Type RAVL Resettable Fuse (PTC's) Battery Strap



www.optifuse.com (619) 593-5050

## Application:

- Rechargeable battery packs
- Lithium cell and battery packs

## Product Features:

Low profile, Solid State

**Operation Current:** 1.7A ~ 2.3A

**Maximum Voltage:** 12VDC

**Temperature Range:** -40°C to 85°C

## Agency Standards and Listings:



## Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Rated Voltage	Max Current	Typical Power	Resistance Tolerance		
	$I_H$ , A	$I_T$ , A	at $5xI_H$ ,s	$V_{MAX}$ , Vdc	$I_{MAX}$ , A	$P_d$ , W	$R_{MIN}$	$R_{MAX}$	$R1_{MAX}$
	$\Omega$	$\Omega$	$\Omega$						
<b>RAVL-170</b>	1.7	4.1	5.0	12	100	1.4	0.018	0.032	0.064
<b>RAVL-175</b>	1.75	4.2	5.0	12	100	1.4	0.017	0.031	0.062
<b>RAVL-230</b>	2.3	5.0	5.0	12	100	1.4	0.012	0.018	0.036

$I_H$  = **Hold Current** – Maximum current at which the device will not trip at 23°C still air.

$I_T$  = **Trip Current** – Minimum current at which the device will always trip at 23°C still air.

$V_{MAX}$  = Maximum voltage device can withstand without damage at it's rated current.

$I_{MAX}$  = Maximum fault current device can withstand without damage at rated voltage (V max).

$P_d$  = Maximum power dissipated from device when in the tripped state in 23°C still air environment.

$R_{MIN}$  = Minimum device resistance at 23°C.

$R1_{MAX}$  = Maximum device resistance at 23°C, 1 hour after tripping.

## Physical Specifications:

**Lead Material:** 0.13mm nominal thickness, quarter hard nickel

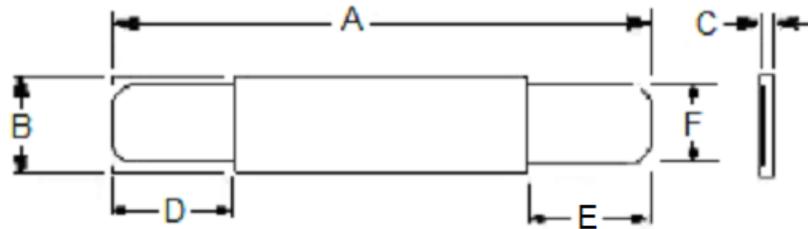
**Insulating Material:** Polyester tape

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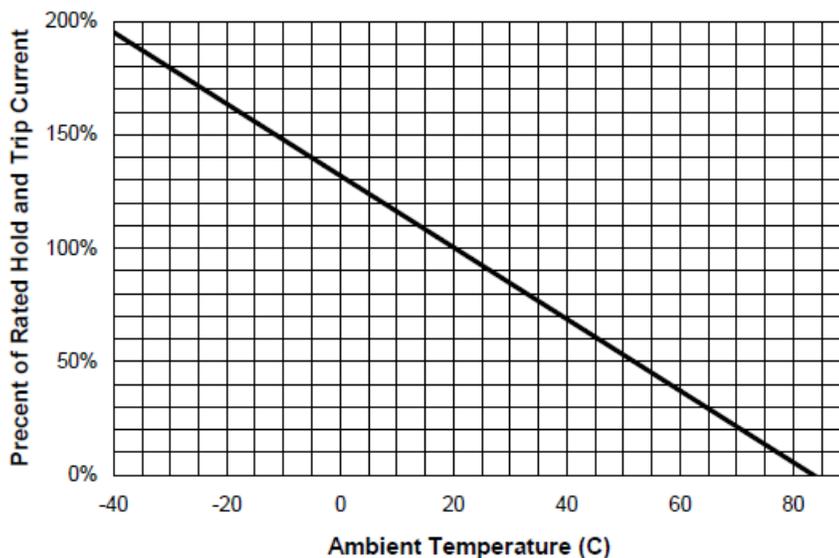
**RAVL Product Dimensions (millimeters)**



**Top View**

Part Number	A		B		C		D		E		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
RAVL-170	20.8	23.2	3.5	3.9	0.5	0.8	4.5	6.5	4.5	6.5	2.4	2.6
RAVL-175	23.0	24.5	2.9	3.3	0.5	0.8	4.7	7.2	3.8	5.4	2.4	2.6
RAVL-230	20.9	23.1	4.9	5.3	0.5	0.8	4.1	5.8	4.1	5.8	3.9	4.1

**Thermal Derating Curve – RAVL Series**



Note: All specifications subject to change without notice.

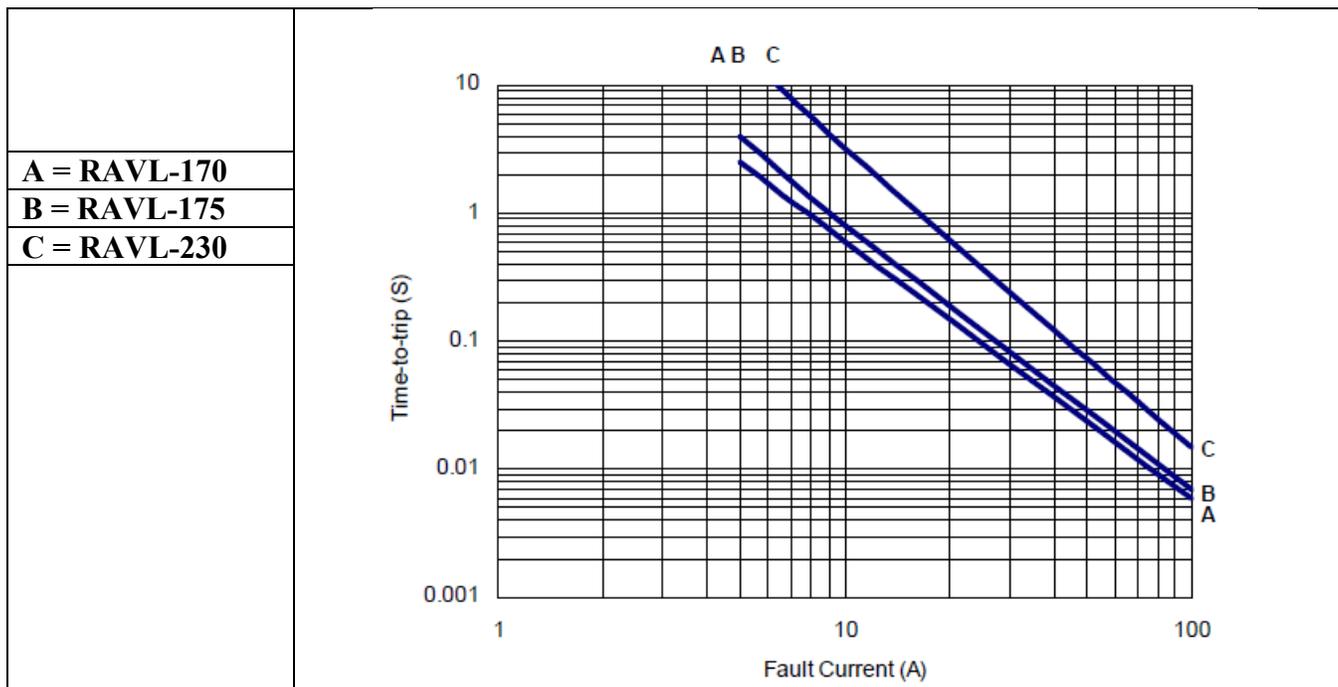
Rev A 11/2012 - Page: 2/3  
Code F01-01H

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## Typical Time-To-Trip at 23°C



## Standard Packaging

Part Number	Pcs/Bag
RAVL-170	1K
RAVL-175	1K
RAVL-230	500

### Warning:



-Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.  
 -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.  
 -Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.