



### 154/154T/154L/154TL Series OMNI-BLOK® Fuse and Holder Assembly



154/154T (Tan color base like shown in this image)  
 154L/154TL (Black color base)

#### Agency Approvals

Recognized under the Components Program of Underwriters Laboratories and Certified by CSA. Approved by METI from 1 through 5 amperes.

Agency	Agency File Number	Ampere Range
	E14721	154 Fast-Acting Fuse: 0.062A - 10A 154 Slo-Blo® Fuse: 0.375A - 7A
	NBK030205-E10480A	154 Fast-Acting Fuse: 1A - 1.6A
	NBK030205-E10480B	154 Fast-Acting Fuse: 2A - 5A
	NBK101105-E184655	154 Fast-Acting Fuse: 6.3A - 10A
	NBK030205-E10480B	154 Slo-Blo® Fuse: 1A - 5A

#### Description

The RoHS compliant 154 Series OMNI-BLOK® Fuse and Holder Assembly offers a solution for efficient installation and easy replacement of miniature Nano<sup>2</sup>® surface mount fuses. Offered in a tape and reel package, this fuse and holder combination can be installed on a PC board as an efficient single step. Fuse replacement can be accomplished without exposing the PC board to the detrimental effects of solder heat.

The fuse holder unit may be sold as a stand-alone item, shipped in bulk quantity (not pre-packaged in tape and reel cartridges) using part number 155900. Please contact Littelfuse for additional information.

#### Features

- Easy fuse replacement
- Miniature size
- RoHS compliant and Halogen Free
- Very Fast-Acting and Time-Lag options available
- Holder sized to fit a range of Nano<sup>2</sup>® type fuses
- Low fuse temperature re-rating
- Wide range of current rating available
  - Fast-Acting: 62mA - 10A
  - Slo-Blo®: 375mA - 5A
- Wide operating temperature range
- Heat-resistant fuseholder, UL94 V-0
- 260°C reflow capable fuseholder

#### Ordering Information

##### With Very Fast-Acting Fuse Installed

Catalog Number	Ampere Rating (A)	Amp Code	Fuse Furnished*
0154.062	0.062	.062	0451.062
0154.080	0.08	.080	0451.080
0154.100	0.1	.100	0451.100
0154.125	0.125	.125	0451.125
0154.160	0.16	.160	0453.160
0154.200	0.2	.200	0453.200
0154.250	0.25	.250	0453.250
0154.315	0.315	.315	0453.315
0154.375	0.375	.375	0453.375
0154.400	0.4	.400	0453.400
0154.500	0.5	.500	0453.500
0154.630	0.63	.630	0453.630
0154.750	0.75	.750	0453.750
0154.800	0.8	.800	0453.800
0154001.	1	.001	0453001.
01541.25	1.25	.125	04531.25
015401.5	1.5	.015	045301.5
015401.6	1.6	.016	045301.6
0154002.	2	.002	0453002.
015402.5	2.5	.025	045302.5
0154003.	3	.003	0453003.
01543.15	3.15	.315	04533.15
015403.5	3.5	.035	045303.5
0154004.	4	.004	0453004.
0154005.	5	.005	0453005.
015406.3	6.3	.063	045306.3
0154007.	7	.007	0453007.
0154008.	8	.008	0453008.
0154010.	10	.010	0453010.

##### With Slo-Blo® Fuse Installed

Catalog Number	Ampere Rating (A)	Amp Code	Fuse Furnished*
154.375 T	0.375	.375	0454.375
154.500 T	0.5	.500	0454.500
154.750 T	0.75	.750	0454.750
154001. T	1	.001	0454001.
15401.5 T	1.5	.015	045401.5
154002. T	2	.002	0454002.
15402.5 T	2.5	.025	045402.5
154003. T	3	.003	0454003.
15403.5 T	3.5	.035	045403.5
154004. T	4	.004	0454004.
154005. T	5	.005	0454005.
154007. T	7	.007	0454007.

\* The 453 and 454 Series fuses identified above have silver-plated end caps, designed to accommodate solder reflow processes:

For 453 Series fuse replacement, either 451, 453 or 448 Series may be used.

For 454 Series fuse replacement, either 452, 454 or 449 Series may be used.

For detailed operating characteristic and performance information for each of the fuse series mentioned above, please refer to their respective data available online at [www.littelfuse.com](http://www.littelfuse.com).

\*\* 155900 is UR recognized and rated 125V, 10A.

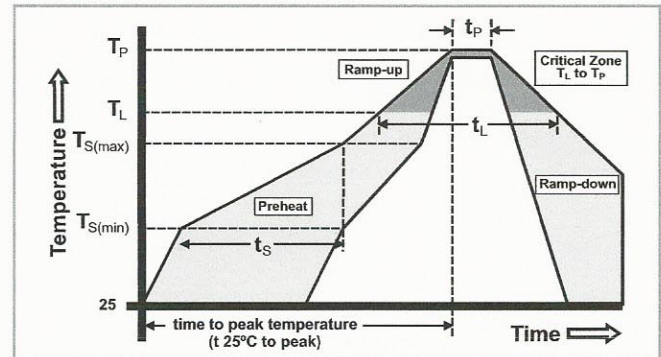


# Surface Mount Fuses

NANO<sup>2</sup>® > 154 OMNI-BLOK® Fuse and Holder Combination

## Soldering Parameters

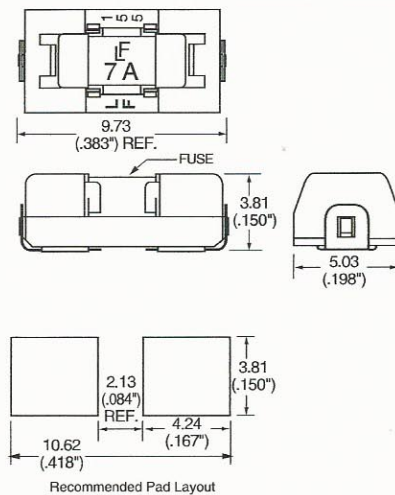
Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ( $T_{s(min)}$ )	150°C
	- Temperature Max ( $T_{s(max)}$ )	200°C
	- Time (Min to Max) ( $t_s$ )	60 – 120 seconds
Average Ramp-up Rate (Liquidus Temp ( $T_L$ ) to peak)		5°C/second max.
$T_{s(max)}$ to $T_L$ - Ramp-up Rate		5°C/second max.
Reflow	- Temperature ( $T_L$ ) (Liquidus)	217°C
	- Temperature ( $t_L$ )	60 – 90 seconds
Peak Temperature ( $T_p$ )		260 <sup>+0/-5</sup> °C
Time within 5°C of actual peak Temperature ( $t_p$ )		20 – 40 seconds
Ramp-down Rate		5°C/second max.
Time 25°C to peak Temperature ( $T_p$ )		8 minutes max.
Do not exceed		260°C



## Product Characteristics

<b>Operating Temperature</b>	-55°C to 125°C
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## Dimensions



## Part Numbering System

**0154 001. D R T L**

**SERIES** ————

**AMP Code** ————  
Refer to Ordering information section on previous page.

**QUANTITY Code** ————  
D = 1500 pcs

**PACKAGING Code** ————  
R = Tape and Reel

**TYPE Code** ————  
T = Time-Lag (Slo-Blo®)

**"L" suffix for Black Color Holder**

**"G" suffix for 451L and 452L Fuses (Au-Plated Caps)**

**Example:**  
1.5 amp Fast-acting product is 0154**01.5**DR.  
1.5 amp Time-lag product is 0154**01.5**DRT.  
(1 amp product shown above).

## Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
Reel Pack	EIA RS-481-2 (IEC 286, part 3)	1500	DR