



## Features

- Compliant with AEC-Q200 Rev-C- Stress Test Qualification for Passive Components in Automotive Applications
- Radial leaded devices
- Smaller size for similar I<sub>hold</sub> rating
- Faster tripping
- RoHS compliant\* and halogen free\*\*
- Agency recognition: US

## Applications

- Automotive applications
- Where space is limited and fast tripping is required

# MF-RG Series - PTC Resettable Fuses

### Electrical Characteristics

| Model     | V max. Volts | I max. Amps | I <sub>hold</sub> | I <sub>trip</sub> | Initial Resistance |        | 1 Hour (R <sub>1</sub> ) Post-Trip Resistance | Max. Time To Trip |                  | Tripped Power Dissipation |
|-----------|--------------|-------------|-------------------|-------------------|--------------------|--------|---|-------------------|------------------|---------------------------|
|           |              |             | Amperes at 23 °C  |                   | Ohms at 23 °C      |        | Ohms at 23 °C                                 | Amperes at 23 °C  | Seconds at 23 °C | Watts at 23 °C            |
|           |              |             | Hold              | Trip              | Min.               | Max.   | Max.  |                   |                  | Typ.                      |
| MF-RG300  | 16           | 100         | 3.00              | 5.10              | 0.038              | 0.065  | 0.0975  | 15                | 1.0              | 2.30                      |
| MF-RG400  | 16           | 100         | 4.00              | 6.80              | 0.021              | 0.0385 | 0.0600  | 20                | 1.7              | 2.40                      |
| MF-RG500  | 16           | 100         | 5.00              | 8.50              | 0.015              | 0.023  | 0.0340  | 25                | 2.0              | 2.60                      |
| MF-RG600  | 16           | 100         | 6.00              | 10.20             | 0.010              | 0.0185 | 0.0280  | 30                | 3.3              | 2.8                       |
| MF-RG650  | 16           | 100         | 6.50              | 11.10             | 0.0088             | 0.0158 | 0.0240  | 33                | 3.5              | 3.0                       |
| MF-RG700  | 16           | 100         | 7.00              | 11.90             | 0.0077             | 0.0130 | 0.0200  | 35                | 3.5              | 3.0                       |
| MF-RG800  | 16           | 100         | 8.00              | 13.60             | 0.0056             | 0.0110 | 0.0175  | 40                | 5.0              | 3.0                       |
| MF-RG900  | 16           | 100         | 9.00              | 15.30             | 0.0047             | 0.0092 | 0.0135  | 45                | 5.5              | 3.3                       |
| MF-RG1000 | 16           | 100         | 10.00             | 17.00             | 0.0040             | 0.0071 | 0.0102  | 50                | 6.0              | 3.6                       |
| MF-RG1100 | 16           | 100         | 11.00             | 18.70             | 0.0037             | 0.0062 | 0.0089  | 55                | 7.0              | 3.7                       |

### Environmental Characteristics

|                                       |  |
|---------------------------------------|--|
| Operating Temperature.....            | -40 °C to +85 °C   |
| Passive Aging.....                    | +85 °C, 1000 hours..... ±5 % typical resistance change           |
| Humidity Aging.....                   | +85 °C, 85 % R.H. 1000 hours..... ±5 % typical resistance change |
| Thermal Shock.....                    | -40 °C to +85 °C, 10 times..... ±10 % typical resistance change  |
| Solvent Resistance.....               | MIL-STD-202, Method 215..... No change                           |
| Vibration.....                        | MIL-STD-883C, Method 2007.1, Condition A..... No change          |
| Moisture Sensitivity Level (MSL)..... | Level 1  |
| ESD Classification - HBM.....         | Class 6  |

### Test Procedures And Requirements For Model MF-RG Series

| Test                 | Test Conditions   | Accept/Reject Criteria                  |
|----------------------|---|---|
| Visual/Mech.....     | Verify dimensions and materials.....                      | Per MF physical description             |
| Resistance.....      | In still air @ 23 °C.....                                 | R <sub>min</sub> ≤ R ≤ R <sub>max</sub> |
| Time to Trip.....    | 5 times I <sub>hold</sub> , V <sub>max</sub> , 23 °C..... | T ≤ max. time to trip (seconds)         |
| Hold Current.....    | 30 min. at I <sub>hold</sub> .....                        | No trip                                 |
| Trip Cycle Life..... | V <sub>max</sub> , I <sub>max</sub> , 100 cycles.....     | No arcing or burning                    |
| Trip Endurance.....  | V <sub>max</sub> , 48 hours.....                          | No arcing or burning                    |

### Thermal Derating Chart - I<sub>hold</sub> (Amps)

| Model     | Ambient Operating Temperature |        |      |       |       |       |       |       |       |
|-----------|-------------------------------|--------|------|-------|-------|-------|-------|-------|-------|
|           | -40 °C                        | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| MF-RG300  | 4.4                           | 4.0    | 3.6  | 3.0   | 2.6   | 2.4   | 2.1   | 1.9   | 1.4   |
| MF-RG400  | 5.9                           | 5.3    | 4.8  | 4.0   | 3.5   | 3.2   | 2.8   | 2.5   | 1.9   |
| MF-RG500  | 7.3                           | 6.6    | 6.0  | 5.0   | 4.4   | 4.0   | 3.6   | 3.1   | 2.4   |
| MF-RG600  | 8.8                           | 8.0    | 7.2  | 6.0   | 5.2   | 4.8   | 4.2   | 3.8   | 2.8   |
| MF-RG650  | 10.3                          | 9.3    | 8.4  | 7.0   | 6.2   | 5.6   | 5.0   | 4.4   | 3.3   |
| MF-RG700  | 10.3                          | 9.3    | 8.4  | 7.0   | 6.2   | 5.6   | 5.0   | 4.4   | 3.3   |
| MF-RG800  | 11.7                          | 10.7   | 9.6  | 8.0   | 6.9   | 6.4   | 5.6   | 5.1   | 3.7   |
| MF-RG900  | 13.2                          | 11.9   | 10.7 | 9.0   | 7.9   | 7.2   | 6.4   | 5.6   | 4.2   |
| MF-RG1000 | 14.7                          | 13.3   | 12.0 | 10.0  | 8.7   | 8.0   | 7.0   | 6.3   | 4.7   |
| MF-RG1100 | 16.1                          | 14.6   | 13.1 | 11.0  | 9.7   | 8.8   | 7.8   | 6.9   | 5.2   |

I<sub>trip</sub> is approximately two times I<sub>hold</sub>.



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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# MF-RG Series - PTC Resettable Fuses

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## Product Dimensions

| Model     | A<br>Max.              | B<br>Max.              | C                     |                       | D<br>Min.             | E<br>Max.             | F<br>Nom.              | Physical Characteristics |          |
|-----------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|--------------------------|----------|
|           |                        |                        | Nom.                  | Tol. ±                |                       |                       |                        | Style                    | Material |
| MF-RG300  | $\frac{7.1}{(0.280)}$  | $\frac{11.0}{(0.433)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG400  | $\frac{9.9}{(0.350)}$  | $\frac{12.8}{(0.504)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG500  | $\frac{10.4}{(0.409)}$ | $\frac{14.3}{(0.563)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG600  | $\frac{10.7}{(0.421)}$ | $\frac{17.1}{(0.673)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG650  | $\frac{11.2}{(0.441)}$ | $\frac{19.7}{(0.776)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG700  | $\frac{11.2}{(0.441)}$ | $\frac{19.7}{(0.776)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG800  | $\frac{12.7}{(0.500)}$ | $\frac{20.9}{(0.823)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG900  | $\frac{14.0}{(0.551)}$ | $\frac{21.7}{(0.854)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG1000 | $\frac{16.5}{(0.650)}$ | $\frac{21.7}{(0.854)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |
| MF-RG1100 | $\frac{17.5}{(0.689)}$ | $\frac{26.0}{(1.024)}$ | $\frac{5.1}{(0.201)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.299)}$ | $\frac{3.0}{(0.118)}$ | $\frac{0.81}{(0.032)}$ | 1                        | Sn/Cu    |

Packaging options:

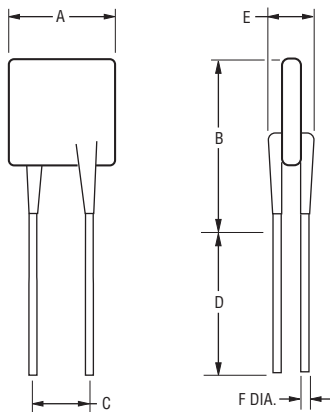
BULK: MF-RG300~MF-RG1100 = 500 pcs. per bag.

TAPE & REEL: MF-RG300~MF-RG500 = 3000 pcs. per reel; MF-RG600~MF-RG1100 = 1000 pcs. per reel.

AMMO-PACK: MF-RG300~MF-RG500 = 2000 pcs. per reel; MF-RG600~MF-RG1100 = 1000 pcs. per reel.

0.81 (20AWG)

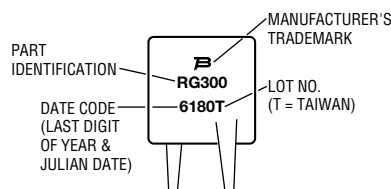
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$



Also available with kinked leads (see How to Order).

### Typical Part Marking

Represents total content. Layout may vary.



### How to Order

**MF - RG 300 - 0 - 14**

Multifuse® Product Designator \_\_\_\_\_  
 Series \_\_\_\_\_  
 RG = Smaller Radial Ledged Component  
 Hold Current,  $I_{hold}$  \_\_\_\_\_  
 300-1100 (3.0 Amps - 11.0 Amps)  
 Packaging Options \_\_\_\_\_  
 - 0 = Bulk Packaging  
 - 2 = Tape and Reel  
 - AP = Ammo-Pak  
 Part Number Suffix Option \_\_\_\_\_  
 - \_\_\_\_ = Standard Straight Leads without part number suffix option  
 - 14 = Kinked Leads in Place of Standard Straight Leads

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# MF-RG Series - PTC Resettable Fuses

**BOURNS®**

Typical Time to Trip at 23 °C



**BOURNS®**

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[www.bourns.com](http://www.bourns.com)

MF-RG SERIES, REV. N, 05/18

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# MF-RG Series Tape and Reel Specifications

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Devices taped using EIA468–B/IEC60286-2 standards. See table below and Figures 1 and 2 for details.

| Dimension Description                             | IEC Mark     | EIA Mark   | Dimensions              |                                    |
|---|--------------|------------|-------------------------|------------------------------------|
|   |              |            | Dimensions              | Tolerance                          |
| Carrier tape width                                | $W$          | $W$        | $\frac{18}{(.709)}$     | $\frac{-0.5/+1.0}{(-0.02/+0.039)}$ |
| Hold down tape width                              |              | $W_4$      | $\frac{11}{(.433)}$     | min.                               |
| Hold down tape                                    | $W_0$        |            | No protrusion           |                                    |
| Top distance between tape edges                   | $W_2$        | $W_6$      | $\frac{3}{(.118)}$      | max.                               |
| Sprocket hole position                            | $W_1$        | $W_5$      | $\frac{9}{(.354)}$      | $\frac{-0.5/+0.75}{(-0.02/+0.03)}$ |
| Sprocket hole diameter                            | $D_0$        | $D_0$      | $\frac{4}{(.157)}$      | $\frac{\pm 0.2}{(\pm .0078)}$      |
| Abscissa to plane (straight lead)                 | $H$          | $H$        | $\frac{18.5}{(.728)}$   | $\frac{\pm 3.0}{(\pm .118)}$       |
| Abscissa to plane (kinked lead)                   | $H_0$        | $H_0$      | $\frac{16}{(.63)}$      | $\frac{\pm 0.5}{(\pm .02)}$        |
| Abscissa to top (straight lead)                   | $H_1$        | $H_1$      | $\frac{38.0}{(1.496)}$  | max.                               |
| Abscissa to top (kinked lead)                     | $H_1$        | $H_1$      | $\frac{32.2}{(1.268)}$  | max.                               |
| Overall width w/lead protrusion (straight lead)   |              | $C_1$      | $\frac{55.0}{(2.165)}$  | max.                               |
| Overall width w/lead protrusion (kinked lead)     |              | $C_1$      | $\frac{43.2}{(1.7)}$    | max.                               |
| Overall width w/o lead protrusion (straight lead) |              | $C_2$      | $\frac{54.0}{(2.126)}$  | max.                               |
| Overall width w/o lead protrusion (kinked lead)   |              | $C_2$      | $\frac{42.5}{(1.673)}$  | max.                               |
| Lead protrusion                                   | $l_1$        | $L_1$      | $\frac{1.0}{(.039)}$    | max.                               |
| Protrusion of cutout                              | $L$          | $L$        | $\frac{11}{(.433)}$     | max.                               |
| Protrusion beyond hold-down tape                  | $l_2$        | $l_2$      | Not specified           |                                    |
| Sprocket hole pitch                               | $P_0$        | $P_0$      | $\frac{12.7}{(0.5)}$    | $\frac{\pm 0.3}{(\pm .012)}$       |
| Pitch tolerance                                   |              |            | 20 consecutive          | $\frac{\pm 1}{(\pm .039)}$         |
| Device pitch                                      |              |            | $\frac{25.4}{(1.000)}$  | $\frac{\pm 0.3}{(\pm .012)}$       |
| Tape thickness                                    | $t$          | $t$        | $\frac{0.9}{(.035)}$    | max.                               |
| Tape thickness with splice                        |              | $t_1$      | $\frac{2.0}{(.079)}$    | max.                               |
| Splice sprocket hole alignment                    |              |            | $\frac{4.0}{(.157)}$    | $\frac{\pm 0.2}{(\pm .008)}$       |
| Body lateral deviation                            | $\Delta_h$   | $\Delta_h$ | 0                       | $\frac{\pm 1}{(\pm .039)}$         |
| Body tape plane deviation                         | $\Delta_p$   | $\Delta_p$ | 0                       | $\frac{\pm 1.3}{(\pm .051)}$       |
| Lead seating plane deviation                      | $\Delta P_1$ | $P_1$      | $\frac{3.81}{(.015)}$   | $\frac{\pm 0.7}{(\pm .028)}$       |
| Lead spacing                                      | $F$          | $F$        | $\frac{5.08}{(.200)}$   | $\frac{-0.2/+0.8}{(.008/+0.031)}$  |
| Reel width  | $w$          | $w$        | $\frac{56.0}{(2.20)}$   | max.                               |
| Reel diameter                                     | $d$          | $a$        | $\frac{370.0}{(14.57)}$ | max.                               |
| Space between flanges less device                 |              |            | $\frac{4.75}{(.187)}$   | $\frac{\pm 3.25}{(\pm .128)}$      |

DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

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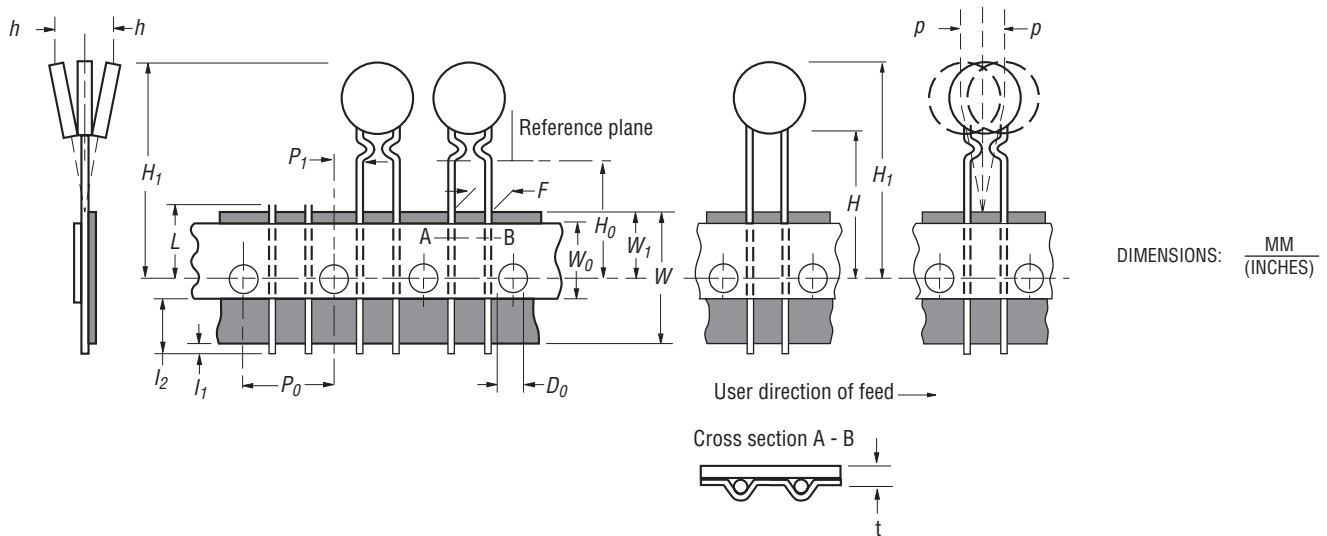
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# MF-RG Series Tape and Reel Specifications

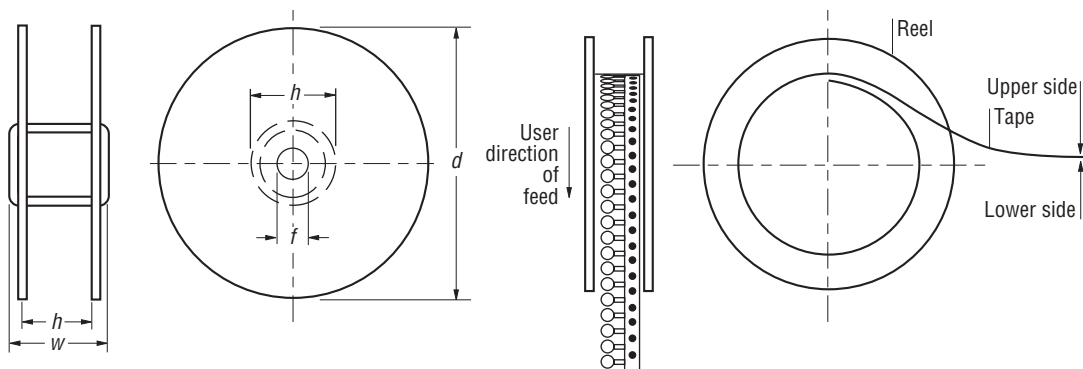
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| Dimension Description      | IEC Mark | EIA Mark | Dimensions  |                               |
|----------------------------|----------|----------|---|-------------------------------|
|                            |          |          | Dimensions  | Tolerance                     |
| Arbor hole diameter        | <i>f</i> | <i>c</i> | $\frac{26.0}{(1.02)}$   | $\frac{\pm 12.0}{(\pm .472)}$ |
| Core diameter              | <i>h</i> | <i>n</i> | $\frac{80.0}{(3.15)}$   | max.                          |
| Box                        |          |          | $\frac{64}{(2.50)}$ $\frac{372}{(14.6)}$ $\frac{372}{(14.6)}$ | nom.                          |
| Consecutive missing places |          |          | 3   | max.                          |
| Empty places per reel      |          |          | Not specified   |                               |

**Taped Component Dimensions - Figure 1**



**Reel Dimensions - Figure 2**



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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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