



## Features

- 72 V rated
- Radial leaded devices
- Cured, flame retardant epoxy polymer insulating material meets UL 94 V-0 requirements
- RoHS compliant\* and halogen free\*\*
- Agency recognition:   

## Applications

Almost anywhere there is a low voltage power supply, up to 72 V and a load to be protected, including:

- Security and fire alarm systems
- Loudspeakers
- Power transformers

## MF-RX/72 Series - PTC Resettable Fuses

### Electrical Characteristics

| Model       | V max.<br>Volts | I max.<br>Amps | I <sub>hold</sub>   | I <sub>trip</sub> | Initial<br>Resistance |      | 1 Hour (R <sub>1</sub> )<br>Post-Trip<br>Resistance | Max. Time<br>To Trip |                     | Tripped<br>Power<br>Dissipation |
|-------------|-----------------|----------------|---------------------|-------------------|-----------------------|------|-----------------------------------------------------|----------------------|---------------------|---------------------------------|
|             |                 |                | Amperes<br>at 23 °C |                   | Ohms<br>at 23 °C      |      | Ohms<br>at 23 °C                                    | Amperes<br>at 23 °C  | Seconds<br>at 23 °C | Watts<br>at 23 °C               |
|             |                 |                | Hold                | Trip              | Min.                  | Max. | Max.                                                |                      |                     | Typ.                            |
| MF-RX020/72 | 72              | 40             | 0.20                | 0.40              | 1.50                  | 2.84 | 4.40                                                | 1.0                  | 2.2                 | 0.40                            |
| MF-RX025/72 | 72              | 40             | 0.25                | 0.50              | 1.00                  | 1.95 | 3.00                                                | 1.25                 | 2.5                 | 0.45                            |
| MF-RX030/72 | 72              | 40             | 0.30                | 0.60              | 0.76                  | 1.36 | 2.10                                                | 1.5                  | 3.0                 | 0.50                            |
| MF-RX040/72 | 72              | 40             | 0.40                | 0.80              | 0.52                  | 0.86 | 1.29                                                | 2.0                  | 3.9                 | 0.55                            |
| MF-RX050/72 | 72              | 40             | 0.50                | 1.00              | 0.41                  | 0.77 | 1.17                                                | 2.5                  | 4.0                 | 0.75                            |
| MF-RX065/72 | 72              | 40             | 0.65                | 1.30              | 0.27                  | 0.48 | 0.72                                                | 3.25                 | 5.3                 | 0.90                            |
| MF-RX075/72 | 72              | 40             | 0.75                | 1.50              | 0.18                  | 0.40 | 0.60                                                | 3.75                 | 6.3                 | 0.90                            |
| MF-RX090/72 | 72              | 40             | 0.90                | 1.80              | 0.14                  | 0.31 | 0.47                                                | 4.5                  | 7.2                 | 1.00                            |
| MF-RX110/72 | 72              | 40             | 1.10                | 2.20              | 0.15                  | 0.25 | 0.38                                                | 5.5                  | 8.2                 | 1.50                            |
| MF-RX135/72 | 72              | 40             | 1.35                | 2.70              | 0.12                  | 0.19 | 0.30                                                | 6.75                 | 9.6                 | 1.70                            |
| MF-RX160/72 | 72              | 40             | 1.60                | 3.20              | 0.09                  | 0.14 | 0.22                                                | 8.0                  | 11.4                | 1.90                            |
| MF-RX185/72 | 72              | 40             | 1.85                | 3.70              | 0.08                  | 0.12 | 0.19                                                | 9.25                 | 12.6                | 2.10                            |
| MF-RX250/72 | 72              | 40             | 2.50                | 5.00              | 0.05                  | 0.08 | 0.13                                                | 12.5                 | 15.6                | 2.50                            |
| MF-RX300/72 | 72              | 40             | 3.00                | 6.00              | 0.04                  | 0.06 | 0.10                                                | 15.0                 | 19.8                | 2.80                            |
| MF-RX375/72 | 72              | 40             | 3.75                | 7.50              | 0.03                  | 0.05 | 0.08                                                | 18.75                | 24.0                | 3.20                            |

### Environmental Characteristics

|                                                              |                                                                   |
|--------------------------------------------------------------|-------------------------------------------------------------------|
| Operating/Storage Temperature.....                           | -40 °C to +85 °C                                                  |
| Maximum Device Surface Temperature<br>in Tripped State ..... | 125 °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 .....                                          | +85 °C to -55 °C, 10 times..... ±10 % typical resistance change   |
| Solvent Resistance.....                                      | MIL-STD-202, Method 215 ..... No change                           |
| Vibration .....                                              | MIL-STD-883C, Method 2007.1,..... No change<br>Condition A        |

### Test Procedures And Requirements For Model MF-RX/72 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                    |
| UL File Number .....         | E174545<br><a href="http://www.ul.com/">http://www.ul.com/</a> Follow link to Certifications, then UL File No., enter E174545                                                      |                                         |
| CSA File Number.....         | CA110338<br><a href="http://directories.csa-international.org/">http://directories.csa-international.org/</a> Under "Certification Record" and "File Number"<br>enter 110338-0-000 |                                         |
| TÜV Certificate Number ..... | R 02057213<br><a href="http://www.tuvdotcom.com/">http://www.tuvdotcom.com/</a> Follow link to "other certificates", enter File No. 2057213                                        |                                         |

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

\*\* Bourns follows the prevailing definition of "halogen free" in the industry. 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.

Specifications are subject to change without notice.

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## Additional Features

- Resettable circuit protection
- Bulk packaging, tape and reel and Ammo-Pak available on most models

# MF-RX/72 Series - PTC Resettable Fuses

**BOURNS®**

## Product Dimensions

| Model       | A                       | B                       | C                      |                       | D                    | E                     | Physical Characteristics |                         |          |
|-------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|-----------------------|--------------------------|-------------------------|----------|
|             | Max.                    | Max.                    | Nom.                   | Tol. ±                | Min.                 | Max.                  | Style                    | Lead Dia.               | Material |
| MF-RX020/72 | $\frac{7.4}{(0.291)}$   | $\frac{12.7}{(0.5)}$    | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{0.51}{(0.020)}$  | Sn/CuFe  |
| MF-RX025/72 | $\frac{7.4}{(0.291)}$   | $\frac{12.7}{(0.5)}$    | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{0.51}{(0.020)}$  | Sn/CuFe  |
| MF-RX030/72 | $\frac{7.4}{(0.291)}$   | $\frac{13.4}{(0.528)}$  | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{0.51}{(0.020)}$  | Sn/CuFe  |
| MF-RX040/72 | $\frac{7.4}{(0.291)}$   | $\frac{13.7}{(0.539)}$  | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{0.51}{(0.020)}$  | Sn/CuFe  |
| MF-RX050/72 | $\frac{7.9}{(0.311)}$   | $\frac{13.7}{(0.539)}$  | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{1.051}{(0.020)}$ | Sn/Cu    |
| MF-RX065/72 | $\frac{9.7}{(0.382)}$   | $\frac{15.2}{(0.598)}$  | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{0.51}{(0.020)}$  | Sn/Cu    |
| MF-RX075/72 | $\frac{10.4}{(0.409)}$  | $\frac{16.0}{(0.630)}$  | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{0.51}{(0.020)}$  | Sn/Cu    |
| MF-RX090/72 | $\frac{11.7}{(0.461)}$  | $\frac{16.70}{(0.657)}$ | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 1                        | $\frac{0.51}{(0.020)}$  | Sn/Cu    |
| MF-RX110/72 | $\frac{10.84}{(0.427)}$ | $\frac{16.84}{(0.662)}$ | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 2                        | $\frac{0.81}{(0.032)}$  | Sn/Cu    |
| MF-RX135/72 | $\frac{12.26}{(0.483)}$ | $\frac{18.26}{(0.718)}$ | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 2                        | $\frac{0.81}{(0.032)}$  | Sn/Cu    |
| MF-RX160/72 | $\frac{13.94}{(0.549)}$ | $\frac{19.94}{(0.785)}$ | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 2                        | $\frac{0.81}{(0.032)}$  | Sn/Cu    |
| MF-RX185/72 | $\frac{15.18}{(0.598)}$ | $\frac{21.18}{(0.833)}$ | $\frac{5.1}{(0.201)}$  | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 2                        | $\frac{0.81}{(0.032)}$  | Sn/Cu    |
| MF-RX250/72 | $\frac{17.84}{(0.702)}$ | $\frac{23.84}{(0.938)}$ | $\frac{10.2}{(0.402)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 2                        | $\frac{0.81}{(0.032)}$  | Sn/Cu    |
| MF-RX300/72 | $\frac{20.67}{(0.814)}$ | $\frac{26.67}{(1.050)}$ | $\frac{10.2}{(0.402)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 2                        | $\frac{0.81}{(0.032)}$  | Sn/Cu    |
| MF-RX375/72 | $\frac{23.51}{(0.926)}$ | $\frac{29.51}{(1.161)}$ | $\frac{10.2}{(0.402)}$ | $\frac{0.7}{(0.028)}$ | $\frac{7.6}{(0.30)}$ | $\frac{3.1}{(0.122)}$ | 2                        | $\frac{0.81}{(0.032)}$  | Sn/Cu    |

Packaging options:

BULK: 500 pcs. per bag.

TAPE & REEL: MF-RX020/72-2 ~ MF-RX090/72-2 = 3000 pcs. per reel; MF-RX110/72-2 ~ MF-RX160/72-2 = 1500 pcs. per reel;

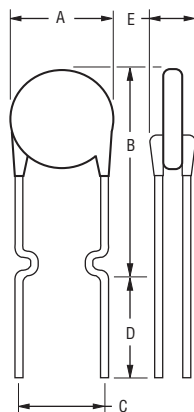
MF-RX185/72-2 - MF-RX375/72-2 = 1000 pcs. per reel.

AMMO-PACK: MF-RX020/72-AP ~ MF-RX090/72-AP = 2000 pcs. per pack; MF-RX110/72-AP ~ MF-RX160/72-AP = 1000 pcs. per pack;

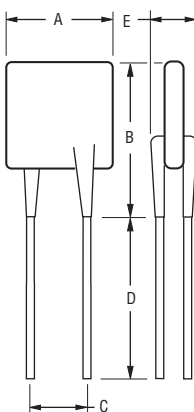
MF-RX185/72-AP - MF-RX375/72-AP = 500 pcs. per pack.

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

Style 1

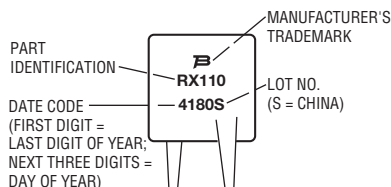


Style 2



## Typical Part Marking

Represents total content. Layout may vary.



## How to Order

**MF - RX 110/72 - 2**

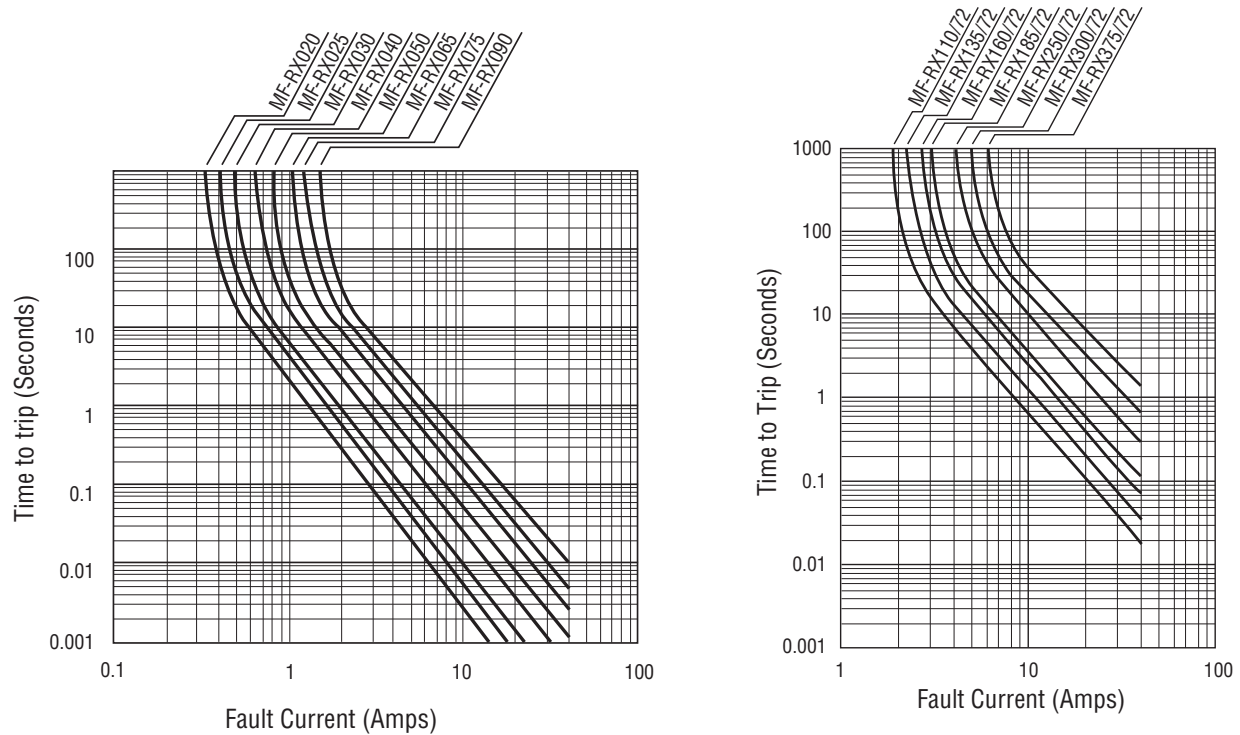
Multifuse®  
 Product Designator  
 Series  
 RX = Radial Leaded Component  
 Hold Current, I<sub>hold</sub>  
 020-375 (0.20 Amps - 3.75 Amps)  
 Maximum Voltage, V<sub>max</sub>  
 72 (72 Volts)  
 Packaging Options  
 - 0 = Bulk Packaging  
 - 2 = Tape and Reel\*  
 - AP = Ammo-Pak\*  
 \*Packaged per EIA 486-B

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# MF-RX/72 Series - PTC Resettable Fuses

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## Typical Time to Trip at 23 °C



The Time to Trip curves represent typical performance of a device in a simulated application environment. Actual performance in specific customer applications may differ from these values due to the influence of other variables.

## Thermal Derating Chart - $I_{hold}$ (Amps)

| Model       | Ambient Operating Temperature |        |      |       |       |       |       |       |       |
|-------------|-------------------------------|--------|------|-------|-------|-------|-------|-------|-------|
|             | -40 °C                        | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C |
| MF-RX020/72 | 0.31                          | 0.27   | 0.24 | 0.20  | 0.16  | 0.14  | 0.13  | 0.11  | 0.08  |
| MF-RX025/72 | 0.39                          | 0.34   | 0.30 | 0.25  | 0.20  | 0.18  | 0.16  | 0.14  | 0.10  |
| MF-RX030/72 | 0.47                          | 0.41   | 0.36 | 0.30  | 0.24  | 0.22  | 0.19  | 0.16  | 0.12  |
| MF-RX040/72 | 0.62                          | 0.54   | 0.48 | 0.40  | 0.32  | 0.29  | 0.25  | 0.22  | 0.16  |
| MF-RX050/72 | 0.78                          | 0.68   | 0.60 | 0.50  | 0.41  | 0.36  | 0.32  | 0.27  | 0.20  |
| MF-RX065/72 | 1.01                          | 0.88   | 0.77 | 0.65  | 0.53  | 0.47  | 0.41  | 0.35  | 0.26  |
| MF-RX075/72 | 1.16                          | 1.02   | 0.89 | 0.75  | 0.61  | 0.54  | 0.47  | 0.41  | 0.30  |
| MF-RX090/72 | 1.40                          | 1.22   | 1.07 | 0.90  | 0.73  | 0.65  | 0.57  | 0.49  | 0.36  |
| MF-RX110/72 | 1.71                          | 1.50   | 1.31 | 1.10  | 0.89  | 0.79  | 0.69  | 0.59  | 0.44  |
| MF-RX135/72 | 2.09                          | 1.84   | 1.61 | 1.35  | 1.09  | 0.97  | 0.85  | 0.73  | 0.54  |
| MF-RX160/72 | 2.48                          | 2.18   | 1.90 | 1.60  | 1.30  | 1.15  | 1.01  | 0.86  | 0.64  |
| MF-RX185/72 | 2.87                          | 2.52   | 2.20 | 1.85  | 1.50  | 1.33  | 1.17  | 1.00  | 0.74  |
| MF-RX250/72 | 3.88                          | 3.40   | 2.98 | 2.50  | 2.03  | 1.80  | 1.58  | 1.35  | 1.00  |
| MF-RX300/72 | 4.65                          | 4.08   | 3.57 | 3.00  | 2.43  | 2.16  | 1.89  | 1.62  | 1.20  |
| MF-RX375/72 | 5.81                          | 5.10   | 4.46 | 3.75  | 3.04  | 2.70  | 2.36  | 2.03  | 1.50  |

MF-RX/72 SERIES, REV. I, 11/14

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# MF-R/72 & MF-RX/72 Series Tape and Reel Specifications **BOURNS®**

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                                         | $W_0$        | $W_4$      | $\frac{11}{(.433)}$    | min.                                |
| Hold down tape                                               |              |            | 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: MF-R/72, MF-RX110/72-MF-RX185/72               |              |            | $\frac{12.7}{(0.5)}$   | $\frac{\pm 0.3}{(\pm .012)}$        |
| Device pitch: MF-RX250/72–MF-RX375/72                        |              |            | $\frac{25.4}{(1.0)}$   | $\frac{\pm 0.6}{(\pm .024)}$        |
| Tape thickness                                               | $t$          | $t$        | $\frac{0.9}{(.035)}$   | max.                                |
| Tape thickness with splice: MF-R/72, MF-RX110/72-MF-RX185/72 |              | $t_1$      | $\frac{1.5}{(.059)}$   | max.                                |
| Tape thickness with splice: MF-RX250/72–MF-RX375/72          |              | $t_1$      | $\frac{2.3}{(.091)}$   | max.                                |
| Splice sprocket hole alignment                               |              |            | 0                      | $\frac{\pm 0.3}{(\pm .012)}$        |
| 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: MF-R/72, MF-RX110/72-MF-RX185/72               | $F$          | $F$        | $\frac{5.08}{(0.2)}$   | $\frac{-0.2/+0.8}{(-0.006/+0.031)}$ |
| Lead spacing: MF-RX250/72–MF-RX375/72                        | $F$          | $F$        | $\frac{10.2}{(0.402)}$ | $\frac{-0.2/+0.8}{(-0.006/+0.031)}$ |

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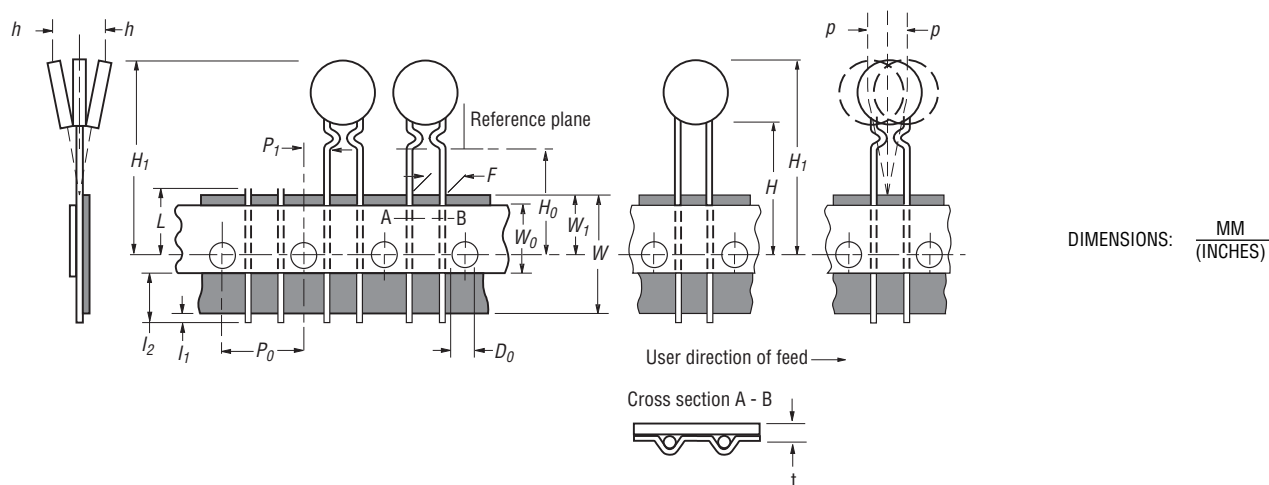
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DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

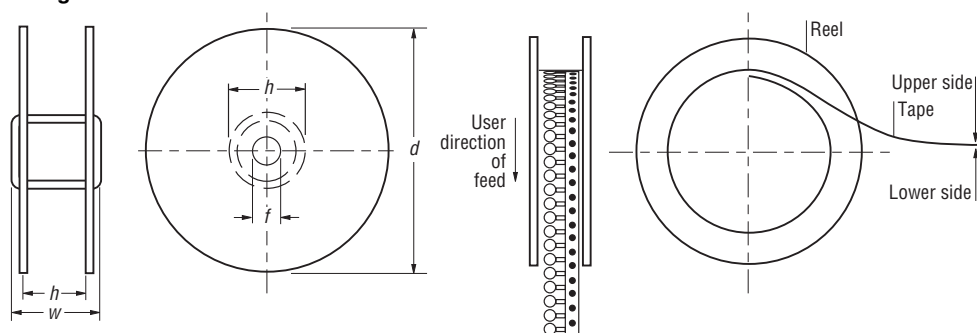
# MF-R/72 & MF-RX/72 Series Tape and Reel Specifications **BOURNS®**

| Dimension Description             | IEC Mark | EIA Mark | Dimensions       |                              |
|-----------------------------------|----------|----------|------------------|------------------------------|
|                                   |          |          | Dimensions       | Tolerance                    |
| Reel width                        | $w$      | $W_2$    | 56.0<br>(2.205)  | max.                         |
| Reel diameter                     | $d$      | $a$      | 370.0<br>(14.57) | max.                         |
| Space between flanges less device | $W_1$    | $h$      | 4.75<br>(.187)   | $\pm 3.25$<br>( $\pm .128$ ) |
| Arbor hole diameter               | $f$      | $c$      | 26.0<br>(1.024)  | $\pm 12.0$<br>( $\pm .472$ ) |
| Core diameter                     | $h$      | $n$      | 80<br>(3.15)     | max.                         |
| Box                               |          |          | 64<br>(2.52)     | 372<br>(14.6)                |
| Consecutive missing places        |          |          | 3                | max.                         |
| Empty places per reel             |          |          | Not specified    |                              |

**Taped Component Dimensions - Figure 1**



**Reel Dimensions - Figure 2**





**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

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