

Additional Features

- Bulk packaging, tape and reel and Ammo-Pak available on most models
- Patents pending

MF-R/90 Series - PTC Resettable Fuses

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Product Dimensions

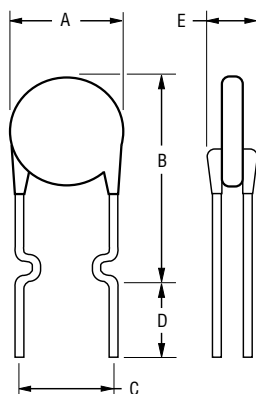
Model	A Max.	B Max.	C (Pitch) Nom.	D Min.	E Max.	Physical Characteristics		
						Style	Lead Dia.	Material
MF-R055/90	10.9 (0.43)	14.0 (0.55)	5.1 ± 0.7 (0.201 ± 0.028)	6.3 (0.248)	3.6 (0.142)	1	0.81 (0.032)	Sn/Cu
MF-R055/90U	10.3 (0.4)	10.3 (0.4)	5.1 ± 0.7 (0.201 ± 0.028)	6.3 (0.248)	3.0 (0.118)	1	0.81 (0.032)	Sn/Cu
MF-R075/90	11.9 (0.47)	15.5 (0.61)	5.1 ± 0.7 (0.201 ± 0.028)	6.3 (0.248)	3.6 (0.142)	1	0.81 (0.032)	Sn/Cu

Packaging options:

BULK: 500 pcs. per bag. TAPE & REEL: 1500 pcs. per reel. AMMO-PACK: 1000 pcs. per pack

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

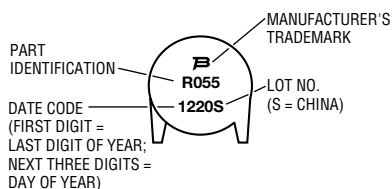
Style 1



Also available with straight leads.

Typical Part Marking

Represents total content. Layout may vary.



How to Order

MF - R 055/90 U - 0 - 99

Multifuse®
Product
Designator

Series
R = Radial Leaded
Component

Hold Current, I_{hold}
055, 075 (0.55 Amps - 0.75 Amps)

Max. Voltage, V

Coating
— = Coated
U = Uncoated

Packaging Options
- 0 = Bulk Packaging
- 2 = Tape and Reel*
- AP = Ammo-Pak*

Lead Free Option
— = Standard Product
- 99 = Lead Free

*Packaged per EIA486-B

Typical Time to Trip at 23 °C



MF-R/90, REV. C, 02/04

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

MF-R, MF-RX, MF-R/90, MF-R/250, MF-RX/250 & MF-R/600 Series Tape and Reel Specifications

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Devices taped using EIA468-B/IEC286-2 standards. See table below and Figures 1 and 2 for details.

Dimension Description	IEC Mark	EIA Mark	Dimensions	
			Dimensions	Tolerance
Carrier tape width	<i>W</i>	<i>W</i>	$\frac{18}{(.709)}$	$\frac{-0.5/+1.0}{(-0.02/+0.039)}$
Hold down tape width: MF-R/600		<i>W4</i>	$\frac{5}{(.197)}$	min.
Hold down tape width: all others		<i>W4</i>	$\frac{11}{(.433)}$	ref.
Hold down tape	<i>W0</i>		No protrusion	
Top distance between tape edges	<i>W2</i>	<i>W6</i>	$\frac{3}{(.118)}$	max.
Sprocket hole position	<i>W1</i>	<i>W5</i>	$\frac{9}{(.354)}$	$\frac{-0.5/+0.75}{(-0.02/+0.03)}$
Sprocket hole diameter	<i>D0</i>	<i>D0</i>	$\frac{4}{(.157)}$	± 0.2 ($\pm .0078$)
Abscissa to plane (straight lead)	<i>H</i>	<i>H</i>	$\frac{18.5}{(.728)}$	± 3.0 ($\pm .118$)
Abscissa to plane (kinked lead)	<i>H0</i>	<i>H0</i>	$\frac{16}{(.63)}$	± 0.5 ($\pm .02$)
Abscissa to top	<i>H1</i>	<i>H1</i>	$\frac{32.2}{(1.268)}$	max.
Overall width w/lead protrusion		<i>C1</i>	$\frac{43.2}{(1.7)}$	max.
Overall width w/o lead protrusion		<i>C2</i>	$\frac{42.5}{(1.673)}$	max.
Lead protrusion	<i>I1</i>	<i>L1</i>	$\frac{1.0}{(.039)}$	max.
Protrusion of cutout	<i>L</i>	<i>L</i>	$\frac{11}{(.433)}$	max.
Protrusion beyond hold tape	<i>I2</i>	<i>I2</i>	Not specified	
Sprocket hole pitch	<i>P0</i>	<i>P0</i>	$\frac{12.7}{(0.5)}$	$\frac{\pm 0.3}{(\pm .012)}$
Pitch tolerance			20 consecutive	± 1
Device pitch: MF-R005 – MF-R160 & MF-R/90			$\frac{12.7}{(0.5)}$	
Device pitch: MF-R185 – MF-R400 & MF-R/600			$\frac{25.4}{(1.0)}$	
Device pitch: MF-RX110 – MF-RX160			$\frac{12.7}{(0.5)}$	
Device pitch: MF-RX185 – MF-RX375			$\frac{12.7}{(0.5)}$	
Device pitch: MF-R/250 & MF-RX/250			$\frac{12.7}{(0.5)}$	
Tape thickness	<i>t</i>	<i>t</i>	$\frac{0.9}{(.035)}$	max.
Tape thickness with splice		<i>t1</i>	$\frac{2.0}{(.079)}$	max.
Splice sprocket hole alignment			0	$\frac{\pm 0.3}{(\pm .012)}$
Body lateral deviation	Δh	Δh	0	$\frac{\pm 1.0}{(\pm .039)}$
Body tape plane deviation	Δp	Δp	0	$\frac{\pm 1.3}{(\pm .051)}$
Lead seating plane deviation: MF-R/600*	$\Delta P1$	<i>P1</i>	$\frac{3.81}{(.015)}$	$\frac{\pm 0.7}{(\pm .028)}$
Lead seating plane deviation	$\Delta P1$	<i>P1</i>	0	$\frac{\pm 0.7}{(\pm .028)}$
Lead spacing	<i>F</i>	<i>F</i>	$\frac{5.08}{(0.2)}$	$\frac{\pm 0.8}{(\pm .035)}$
Reel width	<i>w</i>	<i>w</i>	$\frac{56}{(2.205)}$	max.
Reel diameter	<i>d</i>	<i>a</i>	$\frac{370}{(14.57)}$	max.
Space between flanges less device			$\frac{4.75}{(.187)}$	$\frac{\pm 3.25}{(\pm .128)}$

*Differs from EIA specification.

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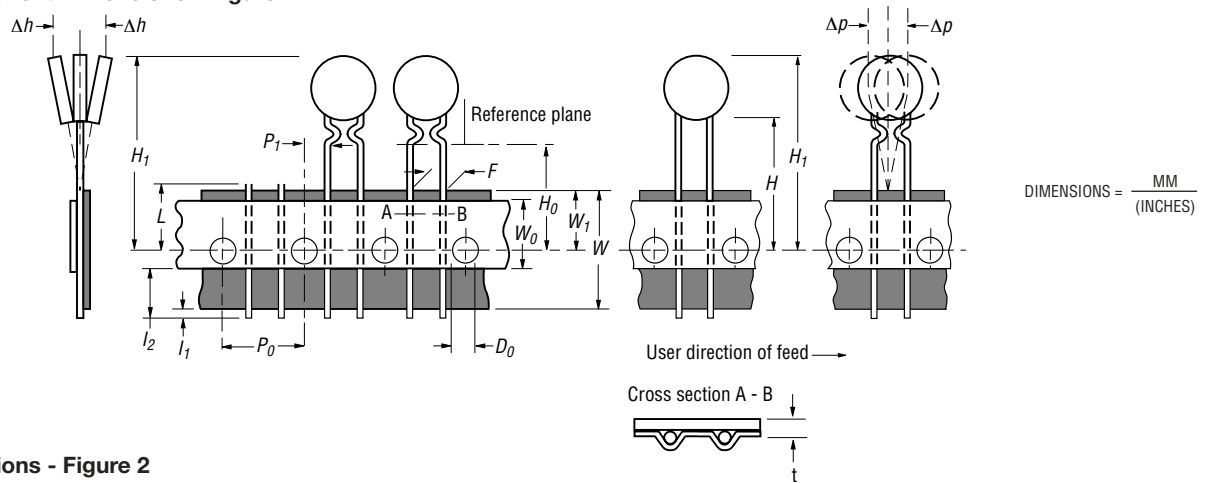
DIMENSIONS = $\frac{\text{MM}}{(\text{INCHES})}$

**MF-R, MF-RX, MF-R/90, MF-R/250, MF-RX/250 & MF-R/600 Series
Tape and Reel Specifications**

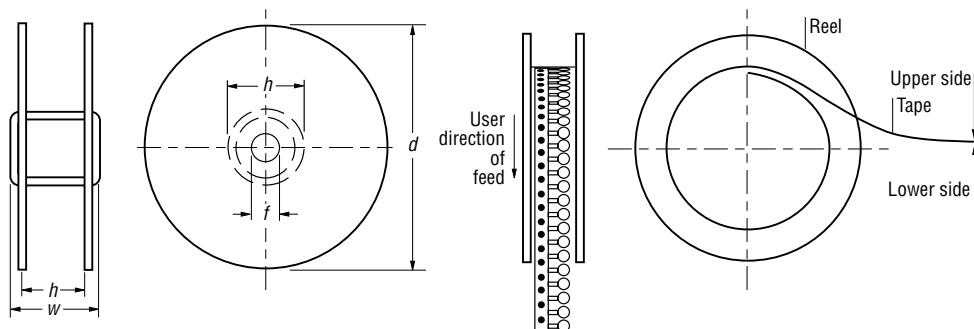
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Dimension Description	IEC Mark	EIA Mark	Dimensions	
			Dimensions	Tolerance
Space between flanges less device			$\frac{4.75}{(.187)}$	$\frac{\pm 3.25}{(\pm .128)}$
Arbor hole diameter	<i>f</i>	<i>c</i>	$\frac{26}{(1.024)}$	$\frac{\pm 12.0}{(\pm .472)}$
Core diameter: MF-R, MF-RX, MF-R/90 & MF-R/250	<i>h</i>	<i>n</i>	$\frac{80}{(3.15)}$	max.
Core diameter: MF-RX/250 & MF-R/600	<i>h</i>	<i>n</i>	$\frac{91}{(3.58)}$	max.
Box: MF-R, MF-RX, MF-R/90 & MF-R/250			$\frac{56}{(2.2)} \quad \frac{372}{(14.6)} \quad \frac{372}{(14.6)}$	max.
Box: MF-RX/250			$\frac{67}{(2.64)} \quad \frac{372}{(14.6)} \quad \frac{362}{(14.25)}$	max.
Box: MF-R/600			$\frac{64}{(2.52)} \quad \frac{372}{(14.6)} \quad \frac{362}{(14.25)}$	max.
Consecutive missing places:				
MF-R, MF-RX, MF-R/90 & MF-R/250			3	max.
Consecutive missing places: MF-RX/250 & MF-R/600			None	
Empty places per reel:				
MF-R, MF-RX, MF-R/90 & MF-R/250				Not specified
Empty places per reel: MF-RX/250 & MF-R/600			0.1 %	

Taped Component Dimensions - Figure 1



Reel Dimensions - Figure 2



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