

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

**Part Number:** MF-R055/90U-AP

**Manufacturer:** Bourns Inc.

**Package:** Radial, Disc

**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/bourns-inc/mf-r055-90u-ap.html>

**Request a Quote:**

[Submit RFQ for this part](#)



Scan for product page

### Contact Information

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WhatsApp: +86-186-8066-5326

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### Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



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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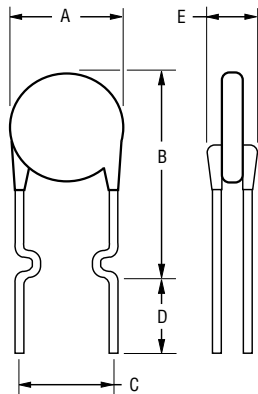
Product Dimensions

| Model       | A<br>Max.      | B<br>Max.      | C (Pitch)<br>Nom.            | D<br>Min.      | E<br>Max.      | Physical Characteristics |                 |          |
|-------------|----------------|----------------|------------------------------|----------------|----------------|--------------------------|-----------------|----------|
|             |                |                |                              |                |                | Style                    | Lead Dia.       | Material |
| MF-R055/90  | 10.9<br>(0.43) | 16.7<br>(0.65) | 5.1 ± 0.7<br>(0.201 ± 0.028) | 6.3<br>(0.248) | 3.6<br>(0.142) | 1                        | 0.81<br>(0.032) | Sn/Cu    |
| MF-R055/90U | 10.3<br>(0.4)  | 16.7<br>(0.65) | 5.1 ± 0.7<br>(0.201 ± 0.028) | 6.3<br>(0.248) | 3.0<br>(0.118) | 1                        | 0.81<br>(0.032) | Sn/Cu    |
| MF-R075/90  | 11.9<br>(0.47) | 15.5<br>(0.61) | 5.1 ± 0.7<br>(0.201 ± 0.028) | 6.3<br>(0.248) | 3.6<br>(0.142) | 1                        | 0.81<br>(0.032) | Sn/Cu    |

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

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

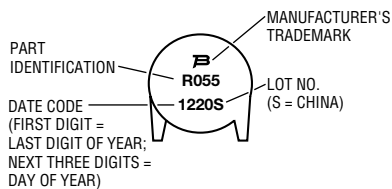
Style 1



Also available with straight leads.

Typical Part Marking

Represents total content. Layout may vary.



How to Order

MF - R 055/90 U - 0

Multifuse®  
Product Designator \_\_\_\_\_  
Series \_\_\_\_\_  
R = Radial Leaded Component  
Hold Current, Ihold \_\_\_\_\_  
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\*

\*Packaged per EIA486-B

Typical Time to Trip at 23 °C



# MF-R, MF-R/72, MF-R/90, MF-R/600, MF-RX, MF-RX/72 & MF-RX/250 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                                                                                  | $W$        | $W$        | $\frac{18}{(.709)}$    | $\frac{-0.5/+1.0}{(-0.02/+0.039)}$ |
| 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                                                                                     | $I_1$      | $L_1$      | $\frac{1.0}{(.039)}$   | max.                               |
| Protrusion of cutout                                                                                | $L$        | $L$        | $\frac{11}{(.433)}$    | max.                               |
| Protrusion beyond hold tape                                                                         | $I_2$      | $I_2$      | 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-R005–MF-R160, MF-R/90,<br>MF-RX110/72–MF-RX185/72, MF-R/72                         |            |            | $\frac{12.7}{(0.5)}$   | $\frac{\pm 0.3}{(\pm .012)}$       |
| Device pitch: MF-R185–MF-R400, MF-RX110–MF-RX375<br>MF-R/600, 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-R010–MF-R160,<br>MF-R/72, MF-RX110/72–MF-RX185/72,                   |            | $t_1$      | $\frac{1.5}{(.059)}$   | max.                               |
| Tape thickness with splice: MF-R250–MF-R1100<br>MF-RX110–MF-RX375, MF-R/90, 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                      | $\frac{\pm 1.0}{(\pm .039)}$       |
| Body tape plane deviation                                                                           | $\Delta p$ | $\Delta p$ | 0                      | $\frac{\pm 1.3}{(\pm .051)}$       |
| Lead spacing                                                                                        | $F$        | $F$        | $\frac{5.08}{(0.2)}$   | $\frac{\pm 0.2}{(\pm .008)}$       |
| Reel width                                                                                          | $w$        | $W_2$      | $\frac{56}{(2.205)}$   | max.                               |
| Reel diameter                                                                                       | $d$        | $a$        | $\frac{370}{(14.57)}$  | max.                               |
| Space between flanges less device                                                                   | $W_1$      | $h$        | $\frac{4.75}{(.187)}$  | $\frac{\pm 3.25}{(\pm .128)}$      |

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

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

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