



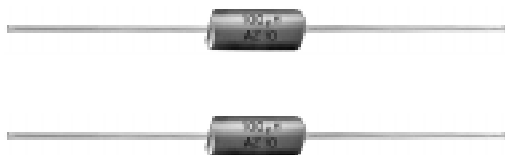
# TR023

Series :  
53600 to 53699

## molded inductors

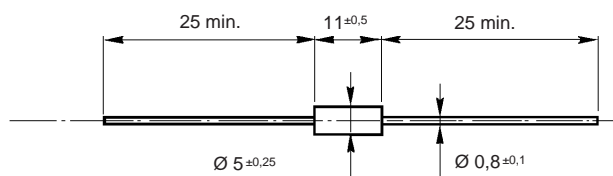
- axial leads
- high frequency and noise suppression applications

NF C 93-331  
LNZ  
GAM-T-1  
lists



These inductors conform to NF C 93-331 regulation. They have copper winding on magnetic core structure with tinned copper lead terminals. Depending on inductance value core is either phenolic material, iron powder or ferrite.

- ACCURATE DIMENSIONS
- SUPERIOR MOISTURE PROTECTION
- FLAME RETARDANT COATING
- HIGH REL ON REQUEST



Dimensions in mm

### SPECIFICATIONS

#### MECHANICAL

COATING... flame retardant  
molded epoxy  
TERMINALS... tinned copper  
WEIGHT... 1,3 g

#### ENVIRONMENTAL

OPERATING TEMPERATURE  
RANGE... + 70°C  
TEMPERATURE LIMITS... -55°C +125°C

#### ELECTRICAL

INDUCTANCE RANGE... 0,15 µH to 1000 µH  
TOLERANCE... ± 10% 0,15 µH < L ≤ 1000 µH  
on request ... ± 5% 1 µH < L ≤ 1000 µH  
± 2% 1 µH < L ≤ 1000 µH  
MAXIMUM VOLTAGE... 500 V RMS  
POWER RATING... 300 mW at +70°C

### MARKING

Standard : printed in clear manufacturer, inductance value, tolerance, or 4 color bands.

### PACKAGING

Standard : tape packaging  
1000 pieces tape in box "Ammopack"  
1000 pieces tape and reel  
On request : 250 pieces bulk pack.

### ORDERING PROCEDURE

| SERIES | STYLE | INDUCTANCE VALUE | TOLERANCE | PACKAGING | COLOR BANDS MARKING |
|--------|-------|------------------|-----------|-----------|---------------------|
| TR     | 023   | 12 µH            | ± 10%     | R         | optional            |
|        |       |                  | ± 10%     |           |                     |
|        |       |                  | ± 5%      |           |                     |
|        |       |                  | ± 2%      |           |                     |

R : tape and reel  
B : tape in box "Ammopack"  
V : bulk pack



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TR 023 INDUCTORS - STANDARD VALUES

Table 1

| Inductance value<br>µH | Tolerance<br>% | Q<br>min. | Test<br>frequency<br>MHz | DCR<br>max.<br>Ω | SRF<br>min.<br>MHz | I<br>max.<br>mA |
|------------------------|----------------|-----------|--------------------------|------------------|--------------------|-----------------|
| 0,15                   | ± 10%          | 50        | 25                       | 0,030            | 500                | 3160            |
| 0,18                   |                |           |                          | 0,032            | 410                | 3060            |
| 0,22                   |                |           |                          | 0,035            | 400                | 2920            |
| 0,27                   |                |           |                          | 0,050            | 380                | 2440            |
| 0,33                   |                |           |                          | 0,065            | 340                | 2150            |
| 0,39                   |                |           |                          | 0,075            | 320                | 2000            |
| 0,47                   |                |           |                          | 0,085            | 300                | 1870            |
| 0,56                   |                |           |                          | 0,14             | 250                | 1470            |
| 0,68                   |                | 50        |                          | 0,15             | 230                | 1415            |
| 0,82                   |                | 45        |                          | 0,22             | 220                | 1165            |
| 1                      |                | 45        | 25                       | 0,30             | 190                | 1000            |
| 1,2                    |                | 30        | 7,9                      | 0,40             | 180                | 870             |
| 1,5                    |                |           |                          | 0,42             | 170                | 850             |
| 1,8                    |                |           |                          | 0,65             | 150                | 680             |
| 2,2                    |                |           |                          | 0,79             | 135                | 620             |
| 2,7                    |                | 30        |                          | 1,20             | 120                | 500             |
| 3,3                    |                | 35        |                          | 0,14             | 75                 | 1465            |
| 3,9                    |                |           |                          | 0,15             | 55                 | 1415            |
| 4,7                    |                |           |                          | 0,21             | 50                 | 1200            |
| 5,6                    |                |           |                          | 0,28             | 50                 | 1035            |
| 6,8                    |                |           |                          | 0,37             | 50                 | 900             |
| 8,2                    |                |           |                          | 0,44             | 45                 | 825             |
| 10                     |                | 35        | 7,9                      | 0,60             | 33                 | 700             |
| 12                     |                | 50        | 2,5                      | 1                | 33                 | 545             |
| 15                     |                | 45        |                          | 1,30             | 30                 | 480             |
| 18                     |                | 60        |                          | 1,10             | 35                 | 510             |
| 22                     |                |           |                          | 1,20             | 30                 | 500             |
| 27                     |                |           |                          | 1,30             | 22                 | 480             |
| 33                     |                |           |                          | 1,50             | 20                 | 430             |
| 39                     |                |           |                          | 1,70             | 18                 | 420             |
| 47                     |                |           |                          | 2,10             | 17                 | 375             |
| 56                     |                |           |                          | 2,35             | 14                 | 355             |
| 68                     |                |           |                          | 2,80             | 12                 | 325             |
| 82                     |                |           |                          | 3,30             | 11                 | 300             |
| 100                    |                |           | 2,5                      | 3,60             | 10                 | 285             |
| 120                    |                |           | 0,79                     | 5                | 6,5                | 245             |
| 150                    |                |           |                          | 6,1              | 5,5                | 220             |
| 180                    |                |           |                          | 7,5              | 5,5                | 200             |
| 220                    |                |           |                          | 8,4              | 5,5                | 185             |
| 270                    |                |           |                          | 9                | 5                  | 180             |
| 330                    |                |           |                          | 10               | 4,5                | 170             |
| 390                    |                |           |                          | 11               | 4,3                | 165             |
| 470                    |                |           |                          | 12               | 4                  | 155             |
| 560                    |                |           |                          | 13               | 3,5                | 150             |
| 680                    |                |           |                          | 14               | 3,3                | 145             |
| 820                    |                |           |                          | 16               | 3                  | 135             |
| 1000                   | ± 10%          | 60        | 0,79                     | 17               | 2,6                | 120             |



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