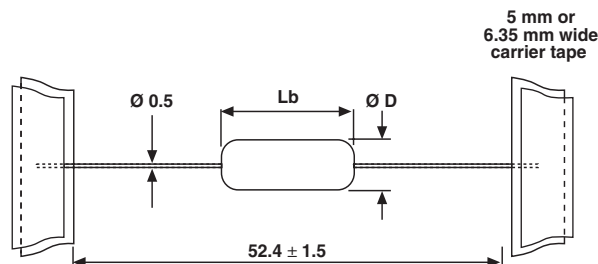


## Dipped Axial Multilayer Ceramic Capacitors for 50 - 100 Vdc

### DIMENSIONS



**RoHS**  
COMPLIANT

### CAPACITOR DIMENSIONS AND WEIGHT

| SIZE | L <sub>b</sub> <sub>max</sub> <sup>(1)</sup> | Ø D <sub>max</sub> <sup>(1)</sup> | WEIGHT (g) |
|------|----------------------------------------------|-----------------------------------|------------|
| 15   | 3.8<br>(0.150)                               | 2.5<br>(0.100)                    | ≈ 0.14     |
| 20   | 5.0<br>(0.200)                               | 3.0<br>(0.120)                    | ≈ 0.15     |

#### Note

1. Dimensions between the parentheses are in inches

### QUICK REFERENCE DATA

| DESCRIPTION              | VALUE         |       |                  |       |                  |       |
|--------------------------|---------------|-------|------------------|-------|------------------|-------|
| Capacitance range        | 10 to 5600 pF |       | 100 pF to 1.0 µF |       | 0.1 µF to 1.0 µF |       |
| Rated DC voltage         | 50 V          | 100 V | 50 V             | 100 V | 50 V             | 100 V |
| Tolerance on capacitance | ± 5 %, ± 10 % |       | ± 10 %, ± 20 %   |       | + 80 /- 20 %     |       |
| Dielectric Code          | C0G (NP0)     |       | X7R              |       | Y5V              |       |

### ORDERING INFORMATION

| A                                               | 103                                                                                       | K                                                         | 15                                             | X7R               | F                                                 | 5                  | TAA                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|-------------------|---------------------------------------------------|--------------------|---------------------------|
| PRODUCT TYPE                                    | CAPACITANCE CODE                                                                          | CAP. TOLERANCE                                            | SIZE CODE                                      | TEMP. CHAR.       | RATED VOLTAGE                                     | LEAD DIA.          | PACKAGING                 |
| A = Mono-Axial                                  | Two significant digits followed by the number of zeros.<br>For example:<br>473 = 47000 pF | J = ± 5 %<br>K = ± 10 %<br>M = ± 20 %<br>Z = + 80 /- 20 % | 15 = 3.8 (0.15") max.<br>20 = 5.0 (0.20") max. | C0G<br>X7R<br>Y5V | F = 50 V <sub>DC</sub><br>H = 100 V <sub>DC</sub> | 5 = 0.5 mm (0.20") | TAA = T & R<br>UAA = AMMO |
| <b>Ordering Example: A-103-K-15-X7R-F-5-TAA</b> |                                                                                           |                                                           |                                                |                   |                                                   |                    |                           |

**CAPACITANCE RANGE CHART  
C0G (NP0) DIELECTRIC**

| SIZE          |      | 15 |     | 20 |     |
|---------------|------|----|-----|----|-----|
| RATED VOLTAGE |      | 50 | 100 | 50 | 100 |
| VALUE         | CODE |    |     |    |     |
| 10 pF         | 100  |    |     |    |     |
| 12 pF         | 120  |    |     |    |     |
| 15 pF         | 150  |    |     |    |     |
| 18 pF         | 180  |    |     |    |     |
| 22 pF         | 220  |    |     |    |     |
| 27 pF         | 270  |    |     |    |     |
| 33 pF         | 330  |    |     |    |     |
| 39 pF         | 390  |    |     |    |     |
| 47 pF         | 470  |    |     |    |     |
| 56 pF         | 560  |    |     |    |     |
| 68 pF         | 680  |    |     |    |     |
| 82 pF         | 820  |    |     |    |     |
| 100 pF        | 101  |    |     |    |     |
| 120 pF        | 121  |    |     |    |     |
| 150 pF        | 151  |    |     |    |     |
| 180 pF        | 181  |    |     |    |     |
| 220 pF        | 221  |    |     |    |     |
| 270 pF        | 271  |    |     |    |     |
| 330 pF        | 331  |    |     |    |     |
| 390 pF        | 391  |    |     |    |     |
| 470 pF        | 471  |    |     |    |     |
| 560 pF        | 561  |    |     |    |     |
| 680 pF        | 681  |    |     |    |     |
| 820 pF        | 821  |    |     |    |     |
| 1000 pF       | 102  |    |     |    |     |
| 1200 pF       | 122  |    |     |    |     |
| 1500 pF       | 152  |    |     |    |     |
| 1800 pF       | 182  |    |     |    |     |
| 2200 pF       | 222  |    |     |    |     |
| 2700 pF       | 272  |    |     |    |     |
| 3300 pF       | 332  |    |     |    |     |
| 3900 pF       | 392  |    |     |    |     |
| 4700 pF       | 472  |    |     |    |     |
| 5600 pF       | 562  |    |     |    |     |

**Y5V DIELECTRIC**

| SIZE          |      | 15 |     | 20 |     |
|---------------|------|----|-----|----|-----|
| RATED VOLTAGE |      | 50 | 100 | 50 | 100 |
| VALUE         | CODE |    |     |    |     |
| 0.01 $\mu$ F  | 103  |    |     |    |     |
| 0.015 $\mu$ F | 153  |    |     |    |     |
| 0.022 $\mu$ F | 223  |    |     |    |     |
| 0.033 $\mu$ F | 333  |    |     |    |     |
| 0.047 $\mu$ F | 473  |    |     |    |     |
| 0.068 $\mu$ F | 683  |    |     |    |     |
| 0.10 $\mu$ F  | 104  |    |     |    |     |
| 0.15 $\mu$ F  | 154  |    |     |    |     |
| 0.22 $\mu$ F  | 224  |    |     |    |     |
| 0.33 $\mu$ F  | 334  |    |     |    |     |
| 0.47 $\mu$ F  | 474  |    |     |    |     |
| 0.68 $\mu$ F  | 684  |    |     |    |     |
| 1.0 $\mu$ F   | 105  |    |     |    |     |

**X7R DIELECTRIC**

| SIZE          |      | 15 |     | 20 |     |
|---------------|------|----|-----|----|-----|
| RATED VOLTAGE |      | 50 | 100 | 50 | 100 |
| VALUE         | CODE |    |     |    |     |
| 100 pF        | 101  |    |     |    |     |
| 120 pF        | 121  |    |     |    |     |
| 150 pF        | 151  |    |     |    |     |
| 180 pF        | 181  |    |     |    |     |
| 220 pF        | 221  |    |     |    |     |
| 270 pF        | 271  |    |     |    |     |
| 330 pF        | 331  |    |     |    |     |
| 390 pF        | 391  |    |     |    |     |
| 470 pF        | 471  |    |     |    |     |
| 560 pF        | 561  |    |     |    |     |
| 680 pF        | 681  |    |     |    |     |
| 820 pF        | 821  |    |     |    |     |
| 1000 pF       | 102  |    |     |    |     |
| 1200 pF       | 122  |    |     |    |     |
| 1500 pF       | 152  |    |     |    |     |
| 1800 pF       | 182  |    |     |    |     |
| 2200 pF       | 222  |    |     |    |     |
| 2700 pF       | 272  |    |     |    |     |
| 3300 pF       | 332  |    |     |    |     |
| 3900 pF       | 392  |    |     |    |     |
| 4700 pF       | 472  |    |     |    |     |
| 5600 pF       | 562  |    |     |    |     |
| 6800 pF       | 682  |    |     |    |     |
| 8200 pF       | 822  |    |     |    |     |
| 0.01 $\mu$ F  | 103  |    |     |    |     |
| 0.012 $\mu$ F | 123  |    |     |    |     |
| 0.015 $\mu$ F | 153  |    |     |    |     |
| 0.018 $\mu$ F | 183  |    |     |    |     |
| 0.022 $\mu$ F | 223  |    |     |    |     |
| 0.027 $\mu$ F | 273  |    |     |    |     |
| 0.033 $\mu$ F | 333  |    |     |    |     |
| 0.039 $\mu$ F | 393  |    |     |    |     |
| 0.047 $\mu$ F | 473  |    |     |    |     |
| 0.056 $\mu$ F | 563  |    |     |    |     |
| 0.068 $\mu$ F | 683  |    |     |    |     |
| 0.082 $\mu$ F | 823  |    |     |    |     |
| 0.10 $\mu$ F  | 104  |    |     |    |     |
| 0.12 $\mu$ F  | 124  |    |     |    |     |
| 0.15 $\mu$ F  | 154  |    |     |    |     |
| 0.22 $\mu$ F  | 224  |    |     |    |     |
| 0.33 $\mu$ F  | 334  |    |     |    |     |
| 0.47 $\mu$ F  | 474  |    |     |    |     |
| 0.68 $\mu$ F  | 684  |    |     |    |     |
| 1.0 $\mu$ F   | 105  |    |     |    |     |

## PART NUMBER LISTING

| MONO-AXIAL Y5V - 50 VDC CLEAR TEXT CODE |                     |                        |           |
|-----------------------------------------|---------------------|------------------------|-----------|
| CAP (pF)                                | RATED VOLTAGE (Vdc) | + 80 /- 20 % TOLERANCE | PACKAGING |
| 10000                                   | 50 Vdc              | A103Z15Y5VF5TAA        | REEL      |
| 10000                                   |                     | A103Z15Y5VF5UAA        | AMMO      |
| 15000                                   |                     | A153Z15Y5VF5TAA        | REEL      |
| 15000                                   |                     | A153Z15Y5VF5UAA        | AMMO      |
| 22000                                   |                     | A223Z15Y5VF5TAA        | REEL      |
| 22000                                   |                     | A223Z15Y5VF5UAA        | AMMO      |
| 33000                                   |                     | A333Z15Y5VF5TAA        | REEL      |
| 33000                                   |                     | A333Z15Y5VF5UAA        | AMMO      |
| 47000                                   |                     | A473Z15Y5VF5TAA        | REEL      |
| 47000                                   |                     | A473Z15Y5VF5UAA        | AMMO      |
| 68000                                   |                     | A683Z15Y5VF5TAA        | REEL      |
| 68000                                   |                     | A683Z15Y5VF5UAA        | AMMO      |
| 100000                                  |                     | A104Z15Y5VF5TAA        | REEL      |
| 100000                                  |                     | A104Z15Y5VF5UAA        | AMMO      |
| 150000                                  |                     | A154Z15Y5VF5TAA        | REEL      |
| 150000                                  |                     | A154Z15Y5VF5UAA        | AMMO      |
| 220000                                  |                     | A224Z15Y5VF5TAA        | REEL      |
| 220000                                  |                     | A224Z15Y5VF5UAA        | AMMO      |
| 330000                                  |                     | A334Z15Y5VF5TAA        | REEL      |
| 330000                                  |                     | A334Z15Y5VF5UAA        | AMMO      |
| 470000                                  |                     | A474Z20Y5VF5TAA        | REEL      |
| 470000                                  |                     | A474Z20Y5VF5UAA        | AMMO      |
| 680000                                  |                     | A684Z20Y5VF5TAA        | REEL      |
| 680000                                  |                     | A684Z20Y5VF5UAA        | AMMO      |
| 1000000                                 |                     | A105Z20Y5VF5TAA        | REEL      |
| 1000000                                 |                     | A105Z20Y5VF5UAA        | AMMO      |

| MONO-AXIAL X7R - 50 VDC CLEAR TEXT CODE |                     |                 |                 |           |
|-----------------------------------------|---------------------|-----------------|-----------------|-----------|
| CAP (pF)                                | RATED VOLTAGE (Vdc) | 10 % TOLERANCE  | 20 % TOLERANCE  | PACKAGING |
| 100                                     | 50 Vdc              | A101K15X7RF5TAA | A101M15X7RF5TAA | REEL      |
| 100                                     |                     | A101K15X7RF5UAA | A101M15X7RF5UAA | AMMO      |
| 120                                     |                     | A121K15X7RF5TAA | A121M15X7RF5TAA | REEL      |
| 120                                     |                     | A121K15X7RF5UAA | A121M15X7RF5UAA | AMMO      |
| 150                                     |                     | A151K15X7RF5TAA | A151M15X7RF5TAA | REEL      |
| 150                                     |                     | A151K15X7RF5UAA | A151M15X7RF5UAA | AMMO      |
| 180                                     |                     | A181K15X7RF5TAA | A181M15X7RF5TAA | REEL      |
| 180                                     |                     | A181K15X7RF5UAA | A181M15X7RF5UAA | AMMO      |
| 220                                     |                     | A221K15X7RF5TAA | A221M15X7RF5TAA | REEL      |
| 220                                     |                     | A221K15X7RF5UAA | A221M15X7RF5UAA | AMMO      |
| 270                                     |                     | A271K15X7RF5TAA | A271M15X7RF5TAA | REEL      |
| 270                                     |                     | A271K15X7RF5UAA | A271M15X7RF5UAA | AMMO      |
| 330                                     |                     | A331K15X7RF5TAA | A331M15X7RF5TAA | REEL      |
| 330                                     |                     | A331K15X7RF5UAA | A331M15X7RF5UAA | AMMO      |
| 390                                     |                     | A391K15X7RF5TAA | A391M15X7RF5TAA | REEL      |
| 390                                     |                     | A391K15X7RF5UAA | A391M15X7RF5UAA | AMMO      |
| 470                                     |                     | A471K15X7RF5TAA | A471M15X7RF5TAA | REEL      |
| 470                                     |                     | A471K15X7RF5UAA | A471M15X7RF5UAA | AMMO      |
| 560                                     |                     | A561K15X7RF5TAA | A561M15X7RF5TAA | REEL      |
| 560                                     |                     | A561K15X7RF5UAA | A561M15X7RF5UAA | AMMO      |
| 680                                     |                     | A681K15X7RF5TAA | A681M15X7RF5TAA | REEL      |
| 680                                     |                     | A681K15X7RF5UAA | A681M15X7RF5UAA | AMMO      |

**Dipped Axial Multilayer Ceramic Capacitors  
for 50 - 100 Vdc****Vishay**

| <b>MONO-AXIAL X7R - 50 VDC CLEAR TEXT CODE</b> |                            |                       |                       |                  |
|------------------------------------------------|----------------------------|-----------------------|-----------------------|------------------|
| <b>CAP (pF)</b>                                | <b>RATED VOLTAGE (Vdc)</b> | <b>10 % TOLERANCE</b> | <b>20 % TOLERANCE</b> | <b>PACKAGING</b> |
| 820                                            | 50 Vdc                     | A821K15X7RF5TAA       | A821M15X7RF5TAA       | REEL             |
| 820                                            |                            | A821K15X7RF5UAA       | A821M15X7RF5UAA       | AMMO             |
| 1000                                           |                            | A102K15X7RF5TAA       | A102M15X7RF5TAA       | REEL             |
| 1000                                           |                            | A102K15X7RF5UAA       | A102M15X7RF5UAA       | AMMO             |
| 1200                                           |                            | A122K15X7RF5TAA       | A122M15X7RF5TAA       | REEL             |
| 1200                                           |                            | A122K15X7RF5UAA       | A122M15X7RF5UAA       | AMMO             |
| 1500                                           |                            | A152K15X7RF5TAA       | A152M15X7RF5TAA       | REEL             |
| 1500                                           |                            | A152K15X7RF5UAA       | A152M15X7RF5UAA       | AMMO             |
| 1800                                           |                            | A182K15X7RF5TAA       | A182M15X7RF5TAA       | REEL             |
| 1800                                           |                            | A182K15X7RF5UAA       | A182M15X7RF5UAA       | AMMO             |
| 2200                                           |                            | A222K15X7RF5TAA       | A222M15X7RF5TAA       | REEL             |
| 2200                                           |                            | A222K15X7RF5UAA       | A222M15X7RF5UAA       | AMMO             |
| 2700                                           |                            | A272K15X7RF5TAA       | A272M15X7RF5TAA       | REEL             |
| 2700                                           |                            | A272K15X7RF5UAA       | A272M15X7RF5UAA       | AMMO             |
| 3300                                           |                            | A332K15X7RF5TAA       | A332M15X7RF5TAA       | REEL             |
| 3300                                           |                            | A332K15X7RF5UAA       | A332M15X7RF5UAA       | AMMO             |
| 3900                                           |                            | A392K15X7RF5TAA       | A392M15X7RF5TAA       | REEL             |
| 3900                                           |                            | A392K15X7RF5UAA       | A392M15X7RF5UAA       | AMMO             |
| 4700                                           |                            | A472K15X7RF5TAA       | A472M15X7RF5TAA       | REEL             |
| 4700                                           |                            | A472K15X7RF5UAA       | A472M15X7RF5UAA       | AMMO             |
| 5600                                           |                            | A562K15X7RF5TAA       | A562M15X7RF5TAA       | REEL             |
| 5600                                           |                            | A562K15X7RF5UAA       | A562M15X7RF5UAA       | AMMO             |
| 6800                                           |                            | A682K15X7RF5TAA       | A682M15X7RF5TAA       | REEL             |
| 6800                                           |                            | A682K15X7RF5UAA       | A682M15X7RF5UAA       | AMMO             |
| 8200                                           |                            | A822K15X7RF5TAA       | A822M15X7RF5TAA       | REEL             |
| 8200                                           |                            | A822K15X7RF5UAA       | A822M15X7RF5UAA       | AMMO             |
| 10000                                          |                            | A103K15X7RF5TAA       | A103M15X7RF5TAA       | REEL             |
| 10000                                          |                            | A103K15X7RF5UAA       | A103M15X7RF5UAA       | AMMO             |
| 12000                                          |                            | A123K15X7RF5TAA       | A123M15X7RF5TAA       | REEL             |
| 12000                                          |                            | A123K15X7RF5UAA       | A123M15X7RF5UAA       | AMMO             |
| 15000                                          |                            | A153K15X7RF5TAA       | A153M15X7RF5TAA       | REEL             |
| 15000                                          |                            | A153K15X7RF5UAA       | A153M15X7RF5UAA       | AMMO             |
| 18000                                          |                            | A183K15X7RF5TAA       | A183M15X7RF5TAA       | REEL             |
| 18000                                          |                            | A183K15X7RF5UAA       | A183M15X7RF5UAA       | AMMO             |
| 22000                                          |                            | A223K15X7RF5TAA       | A223M15X7RF5TAA       | REEL             |
| 22000                                          |                            | A223K15X7RF5UAA       | A223M15X7RF5UAA       | AMMO             |
| 27000                                          |                            | A273K15X7RF5TAA       | A273M15X7RF5TAA       | REEL             |
| 27000                                          |                            | A273K15X7RF5UAA       | A273M15X7RF5UAA       | AMMO             |
| 33000                                          |                            | A333K15X7RF5TAA       | A333M15X7RF5TAA       | REEL             |
| 33000                                          |                            | A333K15X7RF5UAA       | A333M15X7RF5UAA       | AMMO             |
| 39000                                          |                            | A393K15X7RF5TAA       | A393M15X7RF5TAA       | REEL             |
| 39000                                          |                            | A393K15X7RF5UAA       | A393M15X7RF5UAA       | AMMO             |
| 47000                                          |                            | A473K15X7RF5TAA       | A473M15X7RF5TAA       | REEL             |
| 47000                                          |                            | A473K15X7RF5UAA       | A473M15X7RF5UAA       | AMMO             |
| 56000                                          |                            | A563K15X7RF5TAA       | A563M15X7RF5TAA       | REEL             |
| 56000                                          |                            | A563K15X7RF5UAA       | A563M15X7RF5UAA       | AMMO             |
| 68000                                          |                            | A683K15X7RF5TAA       | A683M15X7RF5TAA       | REEL             |
| 68000                                          |                            | A683K15X7RF5UAA       | A683M15X7RF5UAA       | AMMO             |
| 82000                                          |                            | A823K15X7RF5TAA       | A823M15X7RF5TAA       | REEL             |
| 82000                                          |                            | A823K15X7RF5UAA       | A823M15X7RF5UAA       | AMMO             |
| 100000                                         |                            | A104K15X7RF5TAA       | A104M15X7RF5TAA       | REEL             |
| 100000                                         |                            | A104K15X7RF5UAA       | A104M15X7RF5UAA       | AMMO             |
| 120000                                         |                            | A124K20X7RF5TAA       | A124M20X7RF5TAA       | REEL             |

## MONO-AXIAL X7R - 50 VDC CLEAR TEXT CODE

| CAP (pF) | RATED VOLTAGE (Vdc) | 10 % TOLERANCE  | 20 % TOLERANCE  | PACKAGING |
|----------|---------------------|-----------------|-----------------|-----------|
| 120000   | 50 Vdc              | A124K20X7RF5UAA | A124M20X7RF5UAA | AMMO      |
| 150000   |                     | A154K20X7RF5TAA | A154M20X7RF5TAA | REEL      |
| 150000   |                     | A154K20X7RF5UAA | A154M20X7RF5UAA | AMMO      |
| 220000   |                     | A224K20X7RF5TAA | A224M20X7RF5TAA | REEL      |
| 220000   |                     | A224K20X7RF5UAA | A224M20X7RF5UAA | AMMO      |
| 330000   |                     | A334K20X7RF5TAA | A334M20X7RF5TAA | REEL      |
| 330000   |                     | A334K20X7RF5UAA | A334M20X7RF5UAA | AMMO      |
| 470000   |                     | A474K20X7RF5TAA | A474M20X7RF5TAA | REEL      |
| 470000   |                     | A474K20X7RF5UAA | A474M20X7RF5UAA | AMMO      |
| 680000   |                     | A684K20X7RF5TAA | A684M20X7RF5TAA | REEL      |
| 680000   |                     | A684K20X7RF5UAA | A684M20X7RF5UAA | AMMO      |
| 1000000  |                     | A105K20X7RF5TAA | A105M20X7RF5TAA | REEL      |
| 1000000  |                     | A105K20X7RF5UAA | A105M20X7RF5UAA | AMMO      |

## MONO-AXIAL C0G - 50 VDC CLEAR TEXT CODE

| CAP (pF) | RATED VOLTAGE (VDC) | 5 % TOLERANCE   | 10 % TOLERANCE  | PACKAGING |
|----------|---------------------|-----------------|-----------------|-----------|
| 10       | 50 Vdc              | A100J15C0GF5TAA | A100K15C0GF5TAA | REEL      |
| 10       |                     | A100J15C0GF5UAA | A100K15C0GF5UAA | AMMO      |
| 12       |                     | A120J15C0GF5TAA | A120K15C0GF5TAA | REEL      |
| 12       |                     | A120J15C0GF5UAA | A120K15C0GF5UAA | AMMO      |
| 15       |                     | A150J15C0GF5TAA | A150K15C0GF5TAA | REEL      |
| 15       |                     | A150J15C0GF5UAA | A150K15C0GF5UAA | AMMO      |
| 18       |                     | A180J15C0GF5TAA | A180K15C0GF5TAA | REEL      |
| 18       |                     | A180J15C0GF5UAA | A180K15C0GF5UAA | AMMO      |
| 22       |                     | A220J15C0GF5TAA | A220K15C0GF5TAA | REEL      |
| 22       |                     | A220J15C0GF5UAA | A220K15C0GF5UAA | AMMO      |
| 27       |                     | A270J15C0GF5TAA | A270K15C0GF5TAA | REEL      |
| 27       |                     | A270J15C0GF5UAA | A270K15C0GF5UAA | AMMO      |
| 33       |                     | A330J15C0GF5TAA | A330K15C0GF5TAA | REEL      |
| 33       |                     | A330J15C0GF5UAA | A330K15C0GF5UAA | AMMO      |
| 39       |                     | A390J15C0GF5TAA | A390K15C0GF5TAA | REEL      |
| 39       |                     | A390J15C0GF5UAA | A390K15C0GF5UAA | AMMO      |
| 47       |                     | A470J15C0GF5TAA | A470K15C0GF5TAA | REEL      |
| 47       |                     | A470J15C0GF5UAA | A470K15C0GF5UAA | AMMO      |
| 56       |                     | A560J15C0GF5TAA | A560K15C0GF5TAA | REEL      |
| 56       |                     | A560J15C0GF5UAA | A560K15C0GF5UAA | AMMO      |
| 68       |                     | A680J15C0GF5TAA | A680K15C0GF5TAA | REEL      |
| 68       |                     | A680J15C0GF5UAA | A680K15C0GF5UAA | AMMO      |
| 82       |                     | A820J15C0GF5TAA | A820K15C0GF5TAA | REEL      |
| 82       |                     | A820J15C0GF5UAA | A820K15C0GF5UAA | AMMO      |
| 100      |                     | A101J15C0GF5TAA | A101K15C0GF5TAA | REEL      |
| 100      |                     | A101J15C0GF5UAA | A101K15C0GF5UAA | AMMO      |
| 120      |                     | A121J15C0GF5TAA | A121K15C0GF5TAA | REEL      |
| 120      |                     | A121J15C0GF5UAA | A121K15C0GF5UAA | AMMO      |
| 150      |                     | A151J15C0GF5TAA | A151K15C0GF5TAA | REEL      |
| 150      |                     | A151J15C0GF5UAA | A151K15C0GF5UAA | AMMO      |
| 180      |                     | A181J15C0GF5TAA | A181K15C0GF5TAA | REEL      |
| 180      |                     | A181J15C0GF5UAA | A181K15C0GF5UAA | AMMO      |
| 220      |                     | A221J15C0GF5TAA | A221K15C0GF5TAA | REEL      |
| 220      |                     | A221J15C0GF5UAA | A221K15C0GF5UAA | AMMO      |
| 270      |                     | A271J15C0GF5TAA | A271K15C0GF5TAA | REEL      |
| 270      |                     | A271J15C0GF5UAA | A271K15C0GF5UAA | AMMO      |
| 330      |                     | A331J15C0GF5TAA | A331K15C0GF5TAA | REEL      |

Dipped Axial Multilayer Ceramic Capacitors  
for 50 - 100 Vdc

| MONO-AXIAL COG - 50 VDC CLEAR TEXT CODE |                     |                 |                 |           |
|-----------------------------------------|---------------------|-----------------|-----------------|-----------|
| CAP (pF)                                | RATED VOLTAGE (Vdc) | 5 % TOLERANCE   | 10 % TOLERANCE  | PACKAGING |
| 330                                     | 50 Vdc              | A331J15C0GF5UAA | A331K15C0GF5UAA | AMMO      |
| 390                                     |                     | A391J15C0GF5TAA | A391K15C0GF5TAA | REEL      |
| 390                                     |                     | A391J15C0GF5UAA | A391K15C0GF5UAA | AMMO      |
| 470                                     |                     | A471J15C0GF5TAA | A471K15C0GF5TAA | REEL      |
| 470                                     |                     | A471J15C0GF5UAA | A471K15C0GF5UAA | AMMO      |
| 560                                     |                     | A561J15C0GF5TAA | A561K15C0GF5TAA | REEL      |
| 560                                     |                     | A561J15C0GF5UAA | A561K15C0GF5UAA | AMMO      |
| 680                                     |                     | A681J15C0GF5TAA | A681K15C0GF5TAA | REEL      |
| 680                                     |                     | A681J15C0GF5UAA | A681K15C0GF5UAA | AMMO      |
| 820                                     |                     | A821J15C0GF5TAA | A821K15C0GF5TAA | REEL      |
| 820                                     |                     | A821J15C0GF5UAA | A821K15C0GF5UAA | AMMO      |
| 1000                                    |                     | A102J15C0GF5TAA | A102K15C0GF5TAA | REEL      |
| 1000                                    |                     | A102J15C0GF5UAA | A102K15C0GF5UAA | AMMO      |
| 1200                                    |                     | A122J15C0GF5TAA | A122K15C0GF5TAA | REEL      |
| 1200                                    |                     | A122J15C0GF5UAA | A122K15C0GF5UAA | AMMO      |
| 1500                                    |                     | A152J15C0GF5TAA | A152K15C0GF5TAA | REEL      |
| 1500                                    |                     | A152J15C0GF5UAA | A152K15C0GF5UAA | AMMO      |
| 1800                                    |                     | A182J15C0GF5TAA | A182K15C0GF5TAA | REEL      |
| 1800                                    |                     | A182J15C0GF5UAA | A182K15C0GF5UAA | AMMO      |
| 2200                                    |                     | A222J15C0GF5TAA | A222K15C0GF5TAA | REEL      |
| 2200                                    |                     | A222J15C0GF5UAA | A222K15C0GF5UAA | AMMO      |
| 2700                                    |                     | A272J20C0GF5TAA | A272K20C0GF5TAA | REEL      |
| 2700                                    |                     | A272J20C0GF5UAA | A272K20C0GF5UAA | AMMO      |
| 3300                                    |                     | A332J20C0GF5TAA | A332K20C0GF5TAA | REEL      |
| 3300                                    |                     | A332J20C0GF5UAA | A332K20C0GF5UAA | AMMO      |
| 3900                                    |                     | A392J20C0GF5TAA | A392K20C0GF5TAA | REEL      |
| 3900                                    |                     | A392J20C0GF5UAA | A392K20C0GF5UAA | AMMO      |
| 4700                                    |                     | A472J20C0GF5TAA | A472K20C0GF5TAA | REEL      |
| 4700                                    |                     | A472J20C0GF5UAA | A472K20C0GF5UAA | AMMO      |
| 5600                                    |                     | A562J20C0GF5TAA | A562K20C0GF5TAA | REEL      |
| 5600                                    |                     | A562J20C0GF5UAA | A562K20C0GF5UAA | AMMO      |

| MONO-AXIAL Y5V - 100 VDC CLEAR TEXT CODE |                     |                        |           |
|------------------------------------------|---------------------|------------------------|-----------|
| CAP (pF)                                 | RATED VOLTAGE (Vdc) | + 80 /- 20 % TOLERANCE | PACKAGING |
| 10000                                    | 100 Vdc             | A103Z15Y5VH5TAA        | REEL      |
| 10000                                    |                     | A103Z15Y5VH5UAA        | AMMO      |
| 15000                                    |                     | A153Z15Y5VH5TAA        | REEL      |
| 15000                                    |                     | A153Z15Y5VH5UAA        | AMMO      |
| 22000                                    |                     | A223Z15Y5VH5TAA        | REEL      |
| 22000                                    |                     | A223Z15Y5VH5UAA        | AMMO      |
| 33000                                    |                     | A333Z15Y5VH5TAA        | REEL      |
| 33000                                    |                     | A333Z15Y5VH5UAA        | AMMO      |
| 47000                                    |                     | A473Z15Y5VH5TAA        | REEL      |
| 47000                                    |                     | A473Z15Y5VH5UAA        | AMMO      |
| 68000                                    |                     | A683Z15Y5VH5TAA        | REEL      |
| 68000                                    |                     | A683Z15Y5VH5UAA        | AMMO      |
| 100000                                   |                     | A104Z15Y5VH5TAA        | REEL      |
| 100000                                   |                     | A104Z15Y5VH5UAA        | AMMO      |
| 150000                                   |                     | A154Z20Y5VH5TAA        | REEL      |
| 150000                                   |                     | A154Z20Y5VH5UAA        | AMMO      |
| 220000                                   |                     | A224Z20Y5VH5TAA        | REEL      |
| 220000                                   |                     | A224Z20Y5VH5UAA        | AMMO      |

## MONO-AXIAL X7R - 100 VDC CLEAR TEXT CODE

| CAP (pF) | RATED VOLTAGE (Vdc) | 10 % TOLERANCE  | 20 % TOLERANCE  | PACKAGING |
|----------|---------------------|-----------------|-----------------|-----------|
| 100      | 100 Vdc             | A101K15X7RH5TAA | A101M15X7RH5TAA | REEL      |
| 100      |                     | A101K15X7RH5UAA | A101M15X7RH5UAA | AMMO      |
| 120      |                     | A121K15X7RH5TAA | A121M15X7RH5TAA | REEL      |
| 120      |                     | A121K15X7RH5UAA | A121M15X7RH5UAA | AMMO      |
| 150      |                     | A151K15X7RH5TAA | A151M15X7RH5TAA | REEL      |
| 150      |                     | A151K15X7RH5UAA | A151M15X7RH5UAA | AMMO      |
| 180      |                     | A181K15X7RH5TAA | A181M15X7RH5TAA | REEL      |
| 180      |                     | A181K15X7RH5UAA | A181M15X7RH5UAA | AMMO      |
| 220      |                     | A221K15X7RH5TAA | A221M15X7RH5TAA | REEL      |
| 220      |                     | A221K15X7RH5UAA | A221M15X7RH5UAA | AMMO      |
| 270      |                     | A271K15X7RH5TAA | A271M15X7RH5TAA | REEL      |
| 270      |                     | A271K15X7RH5UAA | A271M15X7RH5UAA | AMMO      |
| 330      |                     | A331K15X7RH5TAA | A331M15X7RH5TAA | REEL      |
| 330      |                     | A331K15X7RH5UAA | A331M15X7RH5UAA | AMMO      |
| 390      |                     | A391K15X7RH5TAA | A391M15X7RH5TAA | REEL      |
| 390      |                     | A391K15X7RH5UAA | A391M15X7RH5UAA | AMMO      |
| 470      |                     | A471K15X7RH5TAA | A471M15X7RH5TAA | REEL      |
| 470      |                     | A471K15X7RH5UAA | A471M15X7RH5UAA | AMMO      |
| 560      |                     | A561K15X7RH5TAA | A561M15X7RH5TAA | REEL      |
| 560      |                     | A561K15X7RH5UAA | A561M15X7RH5UAA | AMMO      |
| 680      |                     | A681K15X7RH5TAA | A681M15X7RH5TAA | REEL      |
| 680      |                     | A681K15X7RH5UAA | A681M15X7RH5UAA | AMMO      |
| 820      |                     | A821K15X7RH5TAA | A821M15X7RH5TAA | REEL      |
| 820      |                     | A821K15X7RH5UAA | A821M15X7RH5UAA | AMMO      |
| 1000     |                     | A102K15X7RH5TAA | A102M15X7RH5TAA | REEL      |
| 1000     |                     | A102K15X7RH5UAA | A102M15X7RH5UAA | AMMO      |
| 1200     |                     | A122K15X7RH5TAA | A122M15X7RH5TAA | REEL      |
| 1200     |                     | A122K15X7RH5UAA | A122M15X7RH5UAA | AMMO      |
| 1500     |                     | A152K15X7RH5TAA | A152M15X7RH5TAA | REEL      |
| 1500     |                     | A152K15X7RH5UAA | A152M15X7RH5UAA | AMMO      |
| 1800     |                     | A182K15X7RH5TAA | A182M15X7RH5TAA | REEL      |
| 1800     |                     | A182K15X7RH5UAA | A182M15X7RH5UAA | AMMO      |
| 2200     |                     | A222K15X7RH5TAA | A222M15X7RH5TAA | REEL      |
| 2200     |                     | A222K15X7RH5UAA | A222M15X7RH5UAA | AMMO      |
| 2700     |                     | A272K15X7RH5TAA | A272M15X7RH5TAA | REEL      |
| 2700     |                     | A272K15X7RH5UAA | A272M15X7RH5UAA | AMMO      |
| 3300     |                     | A332K15X7RH5TAA | A332M15X7RH5TAA | REEL      |
| 3300     |                     | A332K15X7RH5UAA | A332M15X7RH5UAA | AMMO      |
| 3900     |                     | A392K15X7RH5TAA | A392M15X7RH5TAA | REEL      |
| 3900     |                     | A392K15X7RH5UAA | A392M15X7RH5UAA | AMMO      |
| 4700     |                     | A472K15X7RH5TAA | A472M15X7RH5TAA | REEL      |
| 4700     |                     | A472K15X7RH5UAA | A472M15X7RH5UAA | AMMO      |
| 5600     |                     | A562K15X7RH5TAA | A562M15X7RH5TAA | REEL      |
| 5600     |                     | A562K15X7RH5UAA | A562M15X7RH5UAA | AMMO      |
| 6800     |                     | A682K15X7RH5TAA | A682M15X7RH5TAA | REEL      |
| 6800     |                     | A682K15X7RH5UAA | A682M15X7RH5UAA | AMMO      |
| 8200     |                     | A822K15X7RH5TAA | A822M15X7RH5TAA | REEL      |
| 8200     |                     | A822K15X7RH5UAA | A822M15X7RH5UAA | AMMO      |
| 10000    |                     | A103K15X7RH5TAA | A103M15X7RH5TAA | REEL      |
| 10000    |                     | A103K15X7RH5UAA | A103M15X7RH5UAA | AMMO      |
| 12000    |                     | A123K15X7RH5TAA | A123M15X7RH5TAA | REEL      |
| 12000    |                     | A123K15X7RH5UAA | A123M15X7RH5UAA | AMMO      |

**Dipped Axial Multilayer Ceramic Capacitors  
for 50 - 100 Vdc****Vishay**

| <b>MONO-AXIAL X7R - 100 VDC CLEAR TEXT CODE</b> |                            |                       |                       |                  |
|-------------------------------------------------|----------------------------|-----------------------|-----------------------|------------------|
| <b>CAP (pF)</b>                                 | <b>RATED VOLTAGE (Vdc)</b> | <b>10 % TOLERANCE</b> | <b>20 % TOLERANCE</b> | <b>PACKAGING</b> |
| 15000                                           | 100 Vdc                    | A153K15X7RH5TAA       | A153M15X7RH5TAA       | REEL             |
| 15000                                           |                            | A153K15X7RH5UAA       | A153M15X7RH5UAA       | AMMO             |
| 18000                                           |                            | A183K15X7RH5TAA       | A183M15X7RH5TAA       | REEL             |
| 18000                                           |                            | A183K15X7RH5UAA       | A183M15X7RH5UAA       | AMMO             |
| 22000                                           |                            | A223K15X7RH5TAA       | A223M15X7RH5TAA       | REEL             |
| 22000                                           |                            | A223K15X7RH5UAA       | A223M15X7RH5UAA       | AMMO             |
| 27000                                           |                            | A273K20X7RH5TAA       | A273M20X7RH5TAA       | REEL             |
| 27000                                           |                            | A273K20X7RH5UAA       | A273M20X7RH5UAA       | AMMO             |
| 33000                                           |                            | A333K20X7RH5TAA       | A333M20X7RH5TAA       | REEL             |
| 33000                                           |                            | A333K20X7RH5UAA       | A333M20X7RH5UAA       | AMMO             |
| 39000                                           |                            | A393K20X7RH5TAA       | A393M20X7RH5TAA       | REEL             |
| 39000                                           |                            | A393K20X7RH5UAA       | A393M20X7RH5UAA       | AMMO             |
| 47000                                           |                            | A473K20X7RH5TAA       | A473M20X7RH5TAA       | REEL             |
| 47000                                           |                            | A473K20X7RH5UAA       | A473M20X7RH5UAA       | AMMO             |
| 56000                                           |                            | A563K20X7RH5TAA       | A563M20X7RH5TAA       | REEL             |
| 56000                                           |                            | A563K20X7RH5UAA       | A563M20X7RH5UAA       | AMMO             |
| 68000                                           |                            | A683K20X7RH5TAA       | A683M20X7RH5TAA       | REEL             |
| 68000                                           |                            | A683K20X7RH5UAA       | A683M20X7RH5UAA       | AMMO             |
| 82000                                           |                            | A823K20X7RH5TAA       | A823M20X7RH5TAA       | REEL             |
| 82000                                           |                            | A823K20X7RH5UAA       | A823M20X7RH5UAA       | AMMO             |
| 100000                                          |                            | A104K20X7RH5TAA       | A104M20X7RH5TAA       | REEL             |
| 100000                                          |                            | A104K20X7RH5UAA       | A104M20X7RH5UAA       | AMMO             |

| <b>MONO-AXIAL C0G - 100 VDC V CLEAR TEXT CODE</b> |                            |                      |                       |                  |
|---------------------------------------------------|----------------------------|----------------------|-----------------------|------------------|
| <b>CAP (pF)</b>                                   | <b>RATED VOLTAGE (Vdc)</b> | <b>5 % TOLERANCE</b> | <b>10 % TOLERANCE</b> | <b>PACKAGING</b> |
| 10                                                | 100 Vdc                    | A100J15C0GH5TAA      | A100K15C0GH5TAA       | REEL             |
| 10                                                |                            | A100J15C0GH5UAA      | A100K15C0GH5UAA       | AMMO             |
| 12                                                |                            | A120J15C0GH5TAA      | A120K15C0GH5TAA       | REEL             |
| 12                                                |                            | A120J15C0GH5UAA      | A120K15C0GH5UAA       | AMMO             |
| 15                                                |                            | A150J15C0GH5TAA      | A150K15C0GH5TAA       | REEL             |
| 15                                                |                            | A150J15C0GH5UAA      | A150K15C0GH5UAA       | AMMO             |
| 18                                                |                            | A180J15C0GH5TAA      | A180K15C0GH5TAA       | REEL             |
| 18                                                |                            | A180J15C0GH5UAA      | A180K15C0GH5UAA       | AMMO             |
| 22                                                |                            | A220J15C0GH5TAA      | A220K15C0GH5TAA       | REEL             |
| 22                                                |                            | A220J15C0GH5UAA      | A220K15C0GH5UAA       | AMMO             |
| 27                                                |                            | A270J15C0GH5TAA      | A270K15C0GH5TAA       | REEL             |
| 27                                                |                            | A270J15C0GH5UAA      | A270K15C0GH5UAA       | AMMO             |
| 33                                                |                            | A330J15C0GH5TAA      | A330K15C0GH5TAA       | REEL             |
| 33                                                |                            | A330J15C0GH5UAA      | A330K15C0GH5UAA       | AMMO             |
| 39                                                |                            | A390J15C0GH5TAA      | A390K15C0GH5TAA       | REEL             |
| 39                                                |                            | A390J15C0GH5UAA      | A390K15C0GH5UAA       | AMMO             |
| 47                                                |                            | A470J15C0GH5TAA      | A470K15C0GH5TAA       | REEL             |
| 47                                                |                            | A470J15C0GH5UAA      | A470K15C0GH5UAA       | AMMO             |
| 56                                                |                            | A560J15C0GH5TAA      | A560K15C0GH5TAA       | REEL             |
| 56                                                |                            | A560J15C0GH5UAA      | A560K15C0GH5UAA       | AMMO             |
| 68                                                |                            | A680J15C0GH5TAA      | A680K15C0GH5TAA       | REEL             |
| 68                                                |                            | A680J15C0GH5UAA      | A680K15C0GH5UAA       | AMMO             |
| 82                                                |                            | A820J15C0GH5TAA      | A820K15C0GH5TAA       | REEL             |
| 82                                                |                            | A820J15C0GH5UAA      | A820K15C0GH5UAA       | AMMO             |
| 100                                               |                            | A101J15C0GH5TAA      | A101K15C0GH5TAA       | REEL             |
| 100                                               |                            | A101J15C0GH5UAA      | A101K15C0GH5UAA       | AMMO             |
| 120                                               |                            | A121J15C0GH5TAA      | A121K15C0GH5TAA       | REEL             |

| MONO-AXIAL COG - 100 VDC V CLEAR TEXT CODE |                     |                 |                 |           |
|--------------------------------------------|---------------------|-----------------|-----------------|-----------|
| CAP (pF)                                   | RATED VOLTAGE (Vdc) | 5 % TOLERANCE   | 10 % TOLERANCE  | PACKAGING |
| 120                                        | 100 Vdc             | A121J15C0GH5UAA | A121K15C0GH5UAA | AMMO      |
| 150                                        |                     | A151J15C0GH5TAA | A151K15C0GH5TAA | REEL      |
| 150                                        |                     | A151J15C0GH5UAA | A151K15C0GH5UAA | AMMO      |
| 180                                        |                     | A181J15C0GH5TAA | A181K15C0GH5TAA | REEL      |
| 180                                        |                     | A181J15C0GH5UAA | A181K15C0GH5UAA | AMMO      |
| 220                                        |                     | A221J15C0GH5TAA | A221K15C0GH5TAA | REEL      |
| 220                                        |                     | A221J15C0GH5UAA | A221K15C0GH5UAA | AMMO      |
| 270                                        |                     | A271J15C0GH5TAA | A271K15C0GH5TAA | REEL      |
| 270                                        |                     | A271J15C0GH5UAA | A271K15C0GH5UAA | AMMO      |
| 330                                        |                     | A331J15C0GH5TAA | A331K15C0GH5TAA | REEL      |
| 330                                        |                     | A331J15C0GH5UAA | A331K15C0GH5UAA | AMMO      |
| 390                                        |                     | A391J15C0GH5TAA | A391K15C0GH5TAA | REEL      |
| 390                                        |                     | A391J15C0GH5UAA | A391K15C0GH5UAA | AMMO      |
| 470                                        |                     | A471J15C0GH5TAA | A471K15C0GH5TAA | REEL      |
| 470                                        |                     | A471J15C0GH5UAA | A471K15C0GH5UAA | AMMO      |
| 560                                        |                     | A561J15C0GH5TAA | A561K15C0GH5TAA | REEL      |
| 560                                        |                     | A561J15C0GH5UAA | A561K15C0GH5UAA | AMMO      |
| 680                                        |                     | A681J15C0GH5TAA | A681K15C0GH5TAA | REEL      |
| 680                                        |                     | A681J15C0GH5UAA | A681K15C0GH5UAA | AMMO      |
| 820                                        |                     | A821J15C0GH5TAA | A821K15C0GH5TAA | REEL      |
| 820                                        |                     | A821J15C0GH5UAA | A821K15C0GH5UAA | AMMO      |
| 1000                                       |                     | A102J20C0GH5TAA | A102K20C0GH5TAA | REEL      |
| 1000                                       |                     | A102J20C0GH5UAA | A102K20C0GH5UAA | AMMO      |
| 1200                                       |                     | A122J20C0GH5TAA | A122K20C0GH5TAA | REEL      |
| 1200                                       |                     | A122J20C0GH5UAA | A122K20C0GH5UAA | AMMO      |
| 1500                                       |                     | A152J20C0GH5TAA | A152K20C0GH5TAA | REEL      |
| 1500                                       |                     | A152J20C0GH5UAA | A152K20C0GH5UAA | AMMO      |
| 1800                                       |                     | A182J20C0GH5TAA | A182K20C0GH5TAA | REEL      |
| 1800                                       |                     | A182J20C0GH5UAA | A182K20C0GH5UAA | AMMO      |
| 2200                                       |                     | A222J20C0GH5TAA | A222K20C0GH5TAA | REEL      |
| 2200                                       |                     | A222J20C0GH5UAA | A222K20C0GH5UAA | AMMO      |
| 2700                                       |                     | A272J20C0GH5TAA | A272K20C0GH5TAA | REEL      |
| 2700                                       |                     | A272J20C0GH5UAA | A272K20C0GH5UAA | AMMO      |
| 3300                                       |                     | A332J20C0GH5TAA | A332K20C0GH5TAA | REEL      |
| 3300                                       |                     | A332J20C0GH5UAA | A332K20C0GH5UAA | AMMO      |
| 3900                                       |                     | A392J20C0GH5TAA | A392K20C0GH5TAA | REEL      |
| 3900                                       |                     | A392J20C0GH5UAA | A392K20C0GH5UAA | AMMO      |
| 4700                                       |                     | A472J20C0GH5TAA | A472K20C0GH5TAA | REEL      |
| 4700                                       |                     | A472J20C0GH5UAA | A472K20C0GH5UAA | AMMO      |
| 5600                                       |                     | A562J20C0GH5TAA | A562K20C0GH5TAA | REEL      |
| 5600                                       |                     | A562J20C0GH5UAA | A562K20C0GH5UAA | AMMO      |



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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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