

# Aluminum Capacitors + 105 °C, Miniature, Axial Lead, General Purpose



## FEATURES

- Long life
- High performance
- High CV per case size
- Case sizes to 0.709" [18.0 mm] diameters
- Material categorization: For definitions of compliance please see [www.vishay.com/doc/99912](http://www.vishay.com/doc/99912)

| QUICK REFERENCE DATA                    |                                                                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION                             | VALUE                                                                                                                                                              |
| Nominal case size<br>Ø D x L in mm      | 0.248" x 0.512" [6.3 x 13.0]<br>to 0.709" x 1.574" [18.0 x 40.0]                                                                                                   |
| Operating temperature                   | - 40 °C to + 105 °C                                                                                                                                                |
| Rated capacitance range, C <sub>R</sub> | 1 µF to 4700 µF                                                                                                                                                    |
| Tolerance on C <sub>R</sub>             | ± 20 %                                                                                                                                                             |
| Rated voltage range, U <sub>R</sub>     | 3 WV <sub>DC</sub> to 250 WV <sub>DC</sub>                                                                                                                         |
| Termination                             | Axial leads                                                                                                                                                        |
| Life validation test at 105 °C          | 2000 h:<br>ΔCAP ≤ 20 % from initial measurement.<br>ΔESR ≤ 1.5 x initial specified limit.<br>ΔDCL ≤ initial specified limit.                                       |
| Shelf life at 85 °C                     | 500 h:<br>ΔCAP ≤ 20 % from initial measurement.<br>ΔESR ≤ 1.5 x initial specified limit.<br>ΔDCL ≤ 2.0 x initial specified limit.                                  |
| DC leakage current                      | 3 WV <sub>DC</sub> to 16 WV <sub>DC</sub> :<br>I = 0.1 √CV + 2<br>25 WV <sub>DC</sub> to 250 WV <sub>DC</sub> :<br>I = 0.2 √CV + 2<br>I in µA, C in µF, V in Volts |

| RIPPLE CURRENT MULTIPLIERS |          |            |             |            |
|----------------------------|----------|------------|-------------|------------|
| TEMPERATURE                |          |            |             |            |
| AMBIENT TEMPERATURE        |          |            | MULTIPLIERS |            |
| + 105 °C                   |          |            | 0.5         |            |
| + 85 °C                    |          |            | 1.0         |            |
| ≤ 65 °C                    |          |            | 2.0         |            |
| FREQUENCY (Hz)             |          |            |             |            |
| WV <sub>DC</sub>           | 50 TO 60 | 100 TO 120 | 300 TO 400  | 1K TO 100K |
| 3 to 50                    | 0.9      | 1.0        | 1.1         | 1.4        |
| 51 to 250                  | 0.8      | 1.0        | 1.3         | 1.6        |

| DIMENSIONS in inches [millimeters] |                |                |                |                |                                   |                |
|------------------------------------|----------------|----------------|----------------|----------------|-----------------------------------|----------------|
| CASE CODE                          | NOMINAL        |                | STYLE 2        |                | STYLE 5<br>RESIN END SEAL APPLIED |                |
|                                    | D              | L              | D (max.)       | L (max.)       | D (max.)                          | L (max.)       |
| BA                                 | 0.248 [6.300]  | 0.512 [13.000] | 0.276 [7.000]  | 0.567 [14.400] | 0.276 [7.000]                     | 0.626 [15.900] |
| BB                                 | 0.248 [6.300]  | 0.689 [17.500] | 0.276 [7.000]  | 0.756 [19.200] | 0.276 [7.000]                     | 0.815 [20.700] |
| CB                                 | 0.315 [8.000]  | 0.689 [17.500] | 0.339 [8.600]  | 0.756 [19.200] | 0.339 [8.600]                     | 0.815 [20.700] |
| CC                                 | 0.315 [8.000]  | 0.807 [20.500] | 0.339 [8.600]  | 0.878 [22.300] | 0.339 [8.600]                     | 0.937 [23.800] |
| DC                                 | 0.374 [9.500]  | 0.807 [20.500] | 0.402 [10.200] | 0.878 [22.300] | 0.402 [10.200]                    | 0.937 [23.800] |
| DD                                 | 0.374 [9.500]  | 0.945 [24.000] | 0.402 [10.200] | 1.01 [25.500]  | 0.402 [10.200]                    | 1.063 [27.000] |
| DF                                 | 0.374 [9.500]  | 1.260 [32.000] | 0.402 [10.200] | 1.319 [33.500] | 0.402 [10.200]                    | 1.378 [35.000] |
| DH                                 | 0.374 [9.500]  | 1.496 [38.000] | 0.402 [10.200] | 1.567 [39.800] | 0.402 [10.200]                    | 1.626 [41.300] |
| EF                                 | 0.433 [11.000] | 1.260 [32.000] | 0.465 [11.800] | 1.319 [33.500] | 0.465 [11.800]                    | 1.378 [35.000] |
| EH                                 | 0.433 [11.000] | 1.496 [38.000] | 0.465 [11.800] | 1.567 [39.800] | 0.465 [11.800]                    | 1.626 [41.300] |
| FH                                 | 0.492 [12.500] | 1.496 [38.000] | 0.516 [13.100] | 1.567 [39.800] | 0.516 [13.100]                    | 1.626 [41.300] |
| FK                                 | 0.492 [12.500] | 1.752 [44.500] | 0.516 [13.100] | 1.831 [46.500] | 0.516 [13.100]                    | 1.890 [48.000] |
| GH                                 | 0.630 [16.000] | 1.496 [38.000] | 0.654 [16.600] | 1.567 [39.800] | 0.654 [16.600]                    | 1.626 [41.300] |
| GK                                 | 0.630 [16.000] | 1.752 [44.500] | 0.654 [16.600] | 1.831 [46.500] | 0.654 [16.600]                    | 1.890 [48.000] |
| LS                                 | 0.709 [18.000] | 1.575 [40.000] | 0.736 [18.700] | 1.673 [42.500] | 0.736 [18.700]                    | 1.693 [43.000] |

## Note

- Lead diameter AWG 20 (0.032" [0.81 mm])

**ORDERING EXAMPLE**

Electrolytic capacitor 30D series: 30D 128 M 025 EH 2 A

| DESCRIPTION |                                          |
|-------------|------------------------------------------|
| CODE        | EXPLANATION                              |
| 30D         | Product type                             |
| 128         | Capacitance value (1200 $\mu$ F)         |
| M           | Tolerance (M = $\pm 20$ %)               |
| 025         | Voltage rating at 105 °C (024 = 25 V)    |
| EH          | Can size (see dimensions table)          |
| 2           | Sleeve and sealing (2 = P. V. C. sleeve) |
| A           | Packaging (A = bulk)                     |

**Note**

- For lead (Pb)-free/RoHS compliant products add suffix "E3" to part number.  
Example: 30D128M025EH2AE3

| ELECTRICAL DATA AND ORDERING INFORMATION            |                |                                    |                                                  |                                            |
|-----------------------------------------------------|----------------|------------------------------------|--------------------------------------------------|--------------------------------------------|
| CAPACITANCE<br>( $\mu$ F)                           | PART NUMBER    | NOMINAL CASE SIZE<br>D x L<br>[mm] | MAX. ESR<br>AT + 25 °C<br>120 Hz<br>( $\Omega$ ) | MAX. RIPPLE<br>AT + 85 °C<br>120 Hz<br>(A) |
| <b>6.3 WV<sub>DC</sub> AT + 105 °C, SURGE = 8 V</b> |                |                                    |                                                  |                                            |
| 150.0                                               | 30D157M6R3BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 2.875                                            | 0.163                                      |
| 330.0                                               | 30D337M6R3CC2A | 0.315 x 0.807 [8.0 x 20.5]         | 1.277                                            | 0.299                                      |
| 1200.0                                              | 30D128M6R3DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 0.345                                            | 0.767                                      |
| 2200.0                                              | 30D228M6R3EF2A | 0.433 x 1.260 [11.0 x 32.0]        | 0.206                                            | 1.080                                      |
| 4700.0                                              | 30D478M6R3GH2A | 0.630 x 1.496 [16.0 x 38.0]        | 0.118                                            | 1.910                                      |
| <b>10 WV<sub>DC</sub> AT + 105 °C, SURGE = 12 V</b> |                |                                    |                                                  |                                            |
| 47.0                                                | 30D476M010BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 7.487                                            | 0.089                                      |
| 100.0                                               | 30D107M010BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 3.561                                            | 0.147                                      |
| 330.0                                               | 30D337M010CC2A | 0.315 x 0.807 [8.0 x 20.5]         | 1.081                                            | 0.325                                      |
| 470.0                                               | 30D477M010DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 0.748                                            | 0.434                                      |
| 1000.0                                              | 30D108M010DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 0.356                                            | 0.755                                      |
| 2200.0                                              | 30D228M010EH2A | 0.433 x 1.496 [11.0 x 38.0]        | 0.184                                            | 1.240                                      |
| <b>16 WV<sub>DC</sub> AT + 105 °C, SURGE = 20 V</b> |                |                                    |                                                  |                                            |
| 33.0                                                | 30D336M016BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 9.814                                            | 0.078                                      |
| 150.0                                               | 30D157M016CB2A | 0.315 x 0.689 [8.0 x 17.5]         | 2.208                                            | 0.212                                      |
| 330.0                                               | 30D337M016DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 1.981                                            | 0.379                                      |
| 470.0                                               | 30D477M016DD2A | 0.374 x 0.945 [9.5 x 24.0]         | 0.679                                            | 0.483                                      |
| 1200.0                                              | 30D128M016DH2A | 0.374 x 1.496 [9.5 x 38.0]         | 0.265                                            | 0.947                                      |
| 4700.0                                              | 30D478M016GK2A | 0.630 x 1.752 [16.0 x 44.5]        | 0.093                                            | 2.290                                      |
| <b>20 WV<sub>DC</sub> AT + 105 °C, SURGE = 25 V</b> |                |                                    |                                                  |                                            |
| 150.0                                               | 30D157M020CC2A | 0.315 x 0.807 [8.0 x 20.5]         | 2.110                                            | 0.233                                      |
| 220.0                                               | 30D227M020DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 1.410                                            | 0.318                                      |
| 1000.0                                              | 30D108M020EF2A | 0.433 x 1.260 [11.0 x 32.0]        | 0.323                                            | 0.863                                      |
| 1500.0                                              | 30D158M020EH2A | 0.433 x 1.496 [11.0 x 38.0]        | 0.221                                            | 1.140                                      |
| 3300.0                                              | 30D338M020GK2A | 0.630 x 1.752 [16.0 x 44.5]        | 0.118                                            | 2.040                                      |

**ELECTRICAL DATA AND ORDERING INFORMATION**

| CAPACITANCE<br>( $\mu$ F)                           | PART NUMBER    | NOMINAL CASE SIZE<br>D x L<br>[mm] | MAX. ESR<br>AT + 25 °C<br>120 Hz<br>( $\Omega$ ) | MAX. RIPPLE<br>AT + 85 °C<br>120 Hz<br>(A) |
|-----------------------------------------------------|----------------|------------------------------------|--------------------------------------------------|--------------------------------------------|
| <b>25 WV<sub>DC</sub> AT + 105 °C, SURGE = 35 V</b> |                |                                    |                                                  |                                            |
| 22.0                                                | 30D226M025BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 13.270                                           | 0.067                                      |
| 47.0                                                | 30D476M025BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 6.128                                            | 0.112                                      |
| 100.0                                               | 30D107M025CC2A | 0.315 x 0.807 [8.0 x 20.5]         | 2.914                                            | 0.197                                      |
| 220.0                                               | 30D227M025DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 1.327                                            | 0.326                                      |
| 330.0                                               | 30D337M025DD2A | 0.374 x 0.945 [9.5 x 24.0]         | 0.885                                            | 0.423                                      |
| 470.0                                               | 30D477M025DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 0.612                                            | 0.575                                      |
| 1200.0                                              | 30D128M025EH2A | 0.433 x 1.496 [11.0 x 38.0]        | 0.239                                            | 1.090                                      |
| 3300.0                                              | 30D338M025LS2A | 0.709 x 1.575 [18.0 x 40.0]        | 0.108                                            | 2.190                                      |
| <b>35 WV<sub>DC</sub> AT + 105 °C, SURGE = 45 V</b> |                |                                    |                                                  |                                            |
| 33.0                                                | 30D336M035BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 8.330                                            | 0.096                                      |
| 100.0                                               | 30D107M035DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 2.740                                            | 0.212                                      |
| 220.0                                               | 30D227M035DD2A | 0.374 x 0.945 [9.5 x 24.0]         | 1.250                                            | 0.356                                      |
| 330.0                                               | 30D337M035DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 0.830                                            | 0.495                                      |
| 1000.0                                              | 30D108M035EH2A | 0.433 x 1.496 [11.0 x 38.0]        | 0.274                                            | 1.020                                      |
| 2200.0                                              | 30D228M035GK2A | 0.630 x 1.752 [16.0 x 44.5]        | 0.125                                            | 1.980                                      |
| <b>40 WV<sub>DC</sub> AT + 105 °C, SURGE = 50 V</b> |                |                                    |                                                  |                                            |
| 15.0                                                | 30D156M040BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 17.600                                           | 0.058                                      |
| 22.0                                                | 30D226M040BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 11.700                                           | 0.081                                      |
| 47.0                                                | 30D476M040CB2A | 0.315 x 0.689 [8.0 x 17.5]         | 5.435                                            | 0.134                                      |
| 100.0                                               | 30D107M040DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 2.585                                            | 0.234                                      |
| 470.0                                               | 30D477M040DH2A | 0.374 x 1.496 [9.5 x 38.0]         | 0.543                                            | 0.663                                      |
| 1000.0                                              | 30D108M040FK2A | 0.492 x 1.752 [12.5 x 44.5]        | 0.258                                            | 1.210                                      |
| 2200.0                                              | 30D228M040LS2A | 0.709 x 1.575 [18.0 x 40.0]        | 0.125                                            | 2.040                                      |
| <b>50 WV<sub>DC</sub> AT + 105 °C, SURGE = 65 V</b> |                |                                    |                                                  |                                            |
| 10.0                                                | 30D106M050BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 25.85                                            | 0.048                                      |
| 22.0                                                | 30D226M050BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 11.700                                           | 0.081                                      |
| 33.0                                                | 30D336M050CB2A | 0.315 x 0.689 [8.0 x 17.5]         | 7.850                                            | 0.112                                      |
| 100.0                                               | 30D107M050DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 2.585                                            | 0.233                                      |
| 220.0                                               | 30D227M050DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 1.177                                            | 0.417                                      |
| 330.0                                               | 30D337M050DH2A | 0.374 x 1.496 [9.5 x 38.0]         | 0.785                                            | 0.551                                      |
| 1500.0                                              | 30D158M050GK2A | 0.630 x 1.752 [16.0 x 44.5]        | 0.176                                            | 1.670                                      |
| <b>63 WV<sub>DC</sub> AT + 105 °C, SURGE = 75 V</b> |                |                                    |                                                  |                                            |
| 15.0                                                | 30D156M063BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 16.580                                           | 0.068                                      |
| 33.0                                                | 30D336M063CB2A | 0.315 x 0.689 [8.0 x 17.5]         | 7.370                                            | 0.116                                      |
| 47.0                                                | 30D476M063CC2A | 0.315 x 0.807 [8.0 x 20.5]         | 5.100                                            | 0.149                                      |
| 100.0                                               | 30D107M063DD2A | 0.374 x 0.945 [9.5 x 24.0]         | 2.426                                            | 0.256                                      |
| 220.0                                               | 30D227M063EF2A | 0.433 x 1.260 [11.0 x 32.0]        | 1.105                                            | 0.467                                      |
| 470.0                                               | 30D477M063EH2A | 0.433 x 1.496 [11.0 x 38.0]        | 0.510                                            | 0.745                                      |
| 1000.0                                              | 30D108M063GK2A | 0.630 x 1.752 [16.0 x 44.5]        | 0.242                                            | 1.420                                      |

**ELECTRICAL DATA AND ORDERING INFORMATION**

| CAPACITANCE<br>( $\mu$ F)                             | PART NUMBER    | NOMINAL CASE SIZE<br>D x L<br>[mm] | MAX. ESR<br>AT + 25 °C<br>120 Hz<br>( $\Omega$ ) | MAX. RIPPLE<br>AT + 85 °C<br>120 Hz<br>(A) |
|-------------------------------------------------------|----------------|------------------------------------|--------------------------------------------------|--------------------------------------------|
| <b>75 WV<sub>DC</sub> AT + 105 °C, SURGE = 85 V</b>   |                |                                    |                                                  |                                            |
| 12.0                                                  | 30D126M075BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 13.200                                           | 0.076                                      |
| 47.0                                                  | 30D476M075DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 3.384                                            | 0.204                                      |
| 120.0                                                 | 30D127M075DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 1.320                                            | 0.392                                      |
| 1000.0                                                | 30D108M075LS2A | 0.709 x 1.575 [18.0 x 40.0]        | 0.160                                            | 1.810                                      |
| <b>100 WV<sub>DC</sub> AT + 105 °C, SURGE = 125 V</b> |                |                                    |                                                  |                                            |
| 4.7                                                   | 30D475M100BB2A | 0.248 x 0.689 [6.3 x 17.5]         | 33.840                                           | 0.048                                      |
| 10.0                                                  | 30D106M100CB2A | 0.315 x 0.689 [8.0 x 17.5]         | 16.097                                           | 0.079                                      |
| 100.0                                                 | 30D107M100DH2A | 0.374 x 1.496 [9.5 x 38.0]         | 1.609                                            | 0.386                                      |
| 220.0                                                 | 30D227M100EK2A | 0.492 x 1.752 [12.5 x 44.5]        | 0.733                                            | 0.717                                      |
| 470.0                                                 | 30D477M100LS2A | 0.709 x 1.575 [18.0 x 40.0]        | 0.338                                            | 1.240                                      |
| <b>160 WV<sub>DC</sub> AT + 105 °C, SURGE = 180 V</b> |                |                                    |                                                  |                                            |
| 1.5                                                   | 30D155M160BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 110.10                                           | 0.023                                      |
| 3.3                                                   | 30D335M160CB2A | 0.315 x 0.689 [8.0 x 17.5]         | 48.880                                           | 0.045                                      |
| 10.0                                                  | 30D106M160DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 16.097                                           | 0.093                                      |
| 22.0                                                  | 30D226M160DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 7.333                                            | 0.166                                      |
| 33.0                                                  | 30D336M160EF2A | 0.433 x 1.260 [11.0 x 32.0]        | 4.888                                            | 0.222                                      |
| 47.0                                                  | 30D476M160EH2A | 0.433 x 1.496 [11.0 x 38.0]        | 3.384                                            | 0.289                                      |
| 100.0                                                 | 30D107M160GK2A | 0.630 x 1.752 [16.0 x 44.5]        | 1.609                                            | 0.552                                      |
| <b>200 WV<sub>DC</sub> AT + 105 °C, SURGE = 250 V</b> |                |                                    |                                                  |                                            |
| 1.2                                                   | 30D125M200BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 132.01                                           | 0.022                                      |
| 4.7                                                   | 30D475M200CC2A | 0.315 x 0.807 [8.0 x 20.5]         | 33.850                                           | 0.058                                      |
| 8.2                                                   | 30D825M200DC2A | 0.374 x 0.807 [9.5 x 20.5]         | 19.410                                           | 0.085                                      |
| 10.0                                                  | 30D106M200DD2A | 0.374 x 0.945 [9.5 x 24.0]         | 16.090                                           | 0.101                                      |
| 22.0                                                  | 30D226M200DH2A | 0.374 x 1.496 [9.5 x 38.0]         | 7.331                                            | 0.181                                      |
| 33.0                                                  | 30D336M200EH2A | 0.433 x 1.496 [11.0 x 38.0]        | 4.880                                            | 0.241                                      |
| 47.0                                                  | 30D476M200EK2A | 0.492 x 1.752 [12.5 x 44.5]        | 3.384                                            | 0.334                                      |
| 100.0                                                 | 30D107M200LS2A | 0.709 x 1.575 [18.0 x 40.0]        | 1.609                                            | 0.571                                      |
| <b>250 WV<sub>DC</sub> AT + 105 °C, SURGE = 300 V</b> |                |                                    |                                                  |                                            |
| 1.0                                                   | 30D105M250BA2A | 0.248 x 0.512 [6.3 x 13.0]         | 160.97                                           | 0.021                                      |
| 3.3                                                   | 30D335M250CC2A | 0.315 x 0.807 [8.0 x 20.5]         | 48.010                                           | 0.049                                      |
| 12.0                                                  | 30D126M250DF2A | 0.374 x 1.260 [9.5 x 32.0]         | 13.210                                           | 0.124                                      |
| 47.0                                                  | 30D476M250GH2A | 0.630 x 1.496 [16.0 x 38.0]        | 3.384                                            | 0.355                                      |



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**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**

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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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