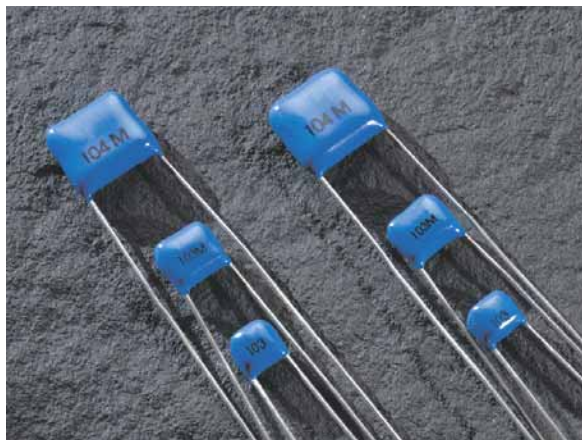


## HIGH VOLTAGE RADIAL LEADED CAPACITORS



### KEY FEATURES

- Rated Working Voltages from 500 to 15,000 VDC
- Rugged Epoxy Coating Offers Increased Protection
- Compact MLC Designs Smaller Than Film or Disc
- DSCC Drawing & Other Screened Versions Available
- Custom Sizes, Voltages, and Values Available

### APPLICATIONS

- Power Supplies
- Voltage Multipliers
- Data Isolation
- Surge Protection
- Industrial Control Circuits
- Custom Applications

### CAPACITANCE / VOLTAGE SELECTION

|                                                                                            |     |                   |                   | RATED<br>VOLTAGE | NPO CAPACITANCE (MAX.) |      | X7R CAPACITANCE (MAX.) |      |
|--------------------------------------------------------------------------------------------|-----|-------------------|-------------------|------------------|------------------------|------|------------------------|------|
|                                                                                            |     |                   |                   |                  | VALUE                  | CODE | VALUE                  | CODE |
| <br>H42 | In. | (mm)              |                   | 500 VDC          | 4700 pF                | 472  | .150 $\mu$ F           | 154  |
|                                                                                            | W   | 0.250 Max         | (6.35 Max)        | 1000 VDC         | 1500 pF                | 152  | .055 $\mu$ F           | 553  |
|                                                                                            | H   | 0.220 Max         | (5.59 Max)        | 2000 VDC         | 680 pF                 | 681  | 9000 pF                | 902  |
|                                                                                            | T   | 0.270 Max         | (6.86 Max)        | 3000 VDC         | 330 pF                 | 331  | 2800 pF                | 282  |
|                                                                                            | S   | 0.170 $\pm$ 0.03  | (4.32 $\pm$ 0.76) | 4000 VDC         | 150 pF                 | 151  | 630 pF                 | 631  |
|                                                                                            | Ld  | 0.025 $\pm$ 0.002 | (0.64 $\pm$ 0.05) | 5000 VDC         | 100 pF                 | 101  | 550 pF                 | 531  |
| <br>H47 | In. | (mm)              |                   | 500 VDC          | .022 $\mu$ F           | 223  | .480 $\mu$ F           | 484  |
|                                                                                            | W   | 0.370 Max         | (9.40 Max)        | 1000 VDC         | 3300 pF                | 332  | .170 $\mu$ F           | 174  |
|                                                                                            | H   | 0.300 Max         | (7.62 Max)        | 2000 VDC         | 1500 pF                | 152  | .025 $\mu$ F           | 253  |
|                                                                                            | T   | 0.270 Max         | (6.86 Max)        | 3000 VDC         | 680 pF                 | 681  | .011 $\mu$ F           | 113  |
|                                                                                            | S   | 0.275 $\pm$ 0.03  | (6.99 $\pm$ 0.76) | 4000 VDC         | 330 pF                 | 331  | 1800 pF                | 182  |
|                                                                                            | Ld  | 0.025 $\pm$ 0.002 | (0.64 $\pm$ 0.05) | 5000 VDC         | 220 pF                 | 221  | 940 pF                 | 941  |
| <br>H51 | In. | (mm)              |                   | 500 VDC          | .056 $\mu$ F           | 563  | 1.20 $\mu$ F           | 125  |
|                                                                                            | W   | 0.470 Max         | (12.0 Max)        | 1000 VDC         | 4700 pF                | 472  | .450 $\mu$ F           | 454  |
|                                                                                            | H   | 0.400 Max         | (10.2 Max)        | 2000 VDC         | 3300 pF                | 332  | .094 $\mu$ F           | 943  |
|                                                                                            | T   | 0.320 Max         | (8.13 Max)        | 3000 VDC         | 1500 pF                | 152  | .043 $\mu$ F           | 433  |
|                                                                                            | S   | 0.375 $\pm$ 0.03  | (9.53 $\pm$ 0.76) | 4000 VDC         | 1000 pF                | 102  | .010 $\mu$ F           | 103  |
|                                                                                            | Ld  | 0.025 $\pm$ 0.002 | (0.64 $\pm$ 0.05) | 5000 VDC         | 470 pF                 | 471  | 4900 pF                | 492  |
| <br>H62 | In. | (mm)              |                   | 500 VDC          | .100 $\mu$ F           | 104  | 2.20 $\mu$ F           | 225  |
|                                                                                            | W   | 0.570 Max         | (14.5 Max)        | 1000 VDC         | .010 $\mu$ F           | 103  | .804 $\mu$ F           | 804  |
|                                                                                            | H   | 0.500 Max         | (12.7 Max)        | 2000 VDC         | 6800 pF                | 682  | .240 $\mu$ F           | 244  |
|                                                                                            | T   | 0.320 Max         | (8.13 Max)        | 3000 VDC         | 3300 pF                | 332  | .073 $\mu$ F           | 733  |
|                                                                                            | S   | 0.475 $\pm$ 0.03  | (12.1 $\pm$ 0.76) | 4000 VDC         | 2200 pF                | 222  | .028 $\mu$ F           | 283  |
|                                                                                            | Ld  | 0.025 $\pm$ 0.002 | (0.64 $\pm$ 0.05) | 5000 VDC         | 1000 pF                | 102  | .013 $\mu$ F           | 133  |

Dielectric specifications may be found on page 16.  
Contact the factory for RoHS products.

If you don't see it here, just ask.

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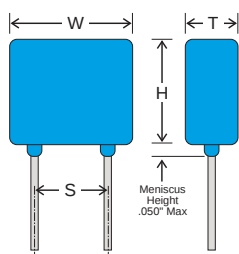
## CAPACITANCE / VOLTAGE SELECTION

|                                                                                     |     |                  |                   | RATED    | NPO CAPACITANCE (MAX.) |      | X7R CAPACITANCE (MAX.) |      |
|-------------------------------------------------------------------------------------|-----|------------------|-------------------|----------|------------------------|------|------------------------|------|
|                                                                                     |     |                  |                   | VOLTAGE  | VALUE                  | CODE | VALUE                  | CODE |
|    | In. | (mm)             |                   | 500 VDC  | .150 $\mu$ F           | 154  | 3.30 $\mu$ F           | 335  |
|                                                                                     | W   | 0.670 Max        | (17.0 Max)        | 1000 VDC | .015 $\mu$ F           | 153  | 1.20 $\mu$ F           | 125  |
|                                                                                     | H   | 0.600 Max        | (15.2 Max)        | 2000 VDC | .010 $\mu$ F           | 103  | .440 $\mu$ F           | 444  |
|                                                                                     | T   | 0.320 Max        | (8.13 Max)        | 3000 VDC | 4700 pF                | 472  | .013 $\mu$ F           | 134  |
|                                                                                     | S   | 0.575 $\pm$ 0.03 | (14.6 $\pm$ 0.76) | 4000 VDC | 3300 pF                | 332  | .041 $\mu$ F           | 413  |
|                                                                                     | Ld  | 0.025 $\pm$ .002 | (0.64 $\pm$ 0.05) | 5000 VDC | 2200 pF                | 222  | .020 $\mu$ F           | 203  |
|    | In. | (mm)             |                   | 500 VDC  | .220 $\mu$ F           | 224  | 5.70 $\mu$ F           | 575  |
|                                                                                     | W   | 0.770 Max        | (19.6 Max)        | 1000 VDC | .022 $\mu$ F           | 223  | 2.10 $\mu$ F           | 215  |
|                                                                                     | H   | 0.720 Max        | (18.3 Max)        | 2000 VDC | .015 $\mu$ F           | 153  | .620 $\mu$ F           | 624  |
|                                                                                     | T   | 0.320 Max        | (8.13 Max)        | 3000 VDC | 6800 pF                | 682  | .190 $\mu$ F           | 194  |
|                                                                                     | S   | 0.675 $\pm$ 0.03 | (17.1 $\pm$ 0.76) | 4000 VDC | 4700 pF                | 472  | .054 $\mu$ F           | 543  |
|                                                                                     | Ld  | 0.025 $\pm$ .002 | (0.64 $\pm$ 0.05) | 5000 VDC | 3300 pF                | 332  | .026 $\mu$ F           | 263  |
|    | In. | (mm)             |                   | 500 VDC  | .330 $\mu$ F           | 334  | 7.30 $\mu$ F           | 735  |
|                                                                                     | W   | 0.870 Max        | (22.1 Max)        | 1000 VDC | .100 $\mu$ F           | 104  | 2.80 $\mu$ F           | 285  |
|                                                                                     | H   | 0.750 Max        | (19.1 Max)        | 2000 VDC | .056 $\mu$ F           | 563  | .800 $\mu$ F           | 804  |
|                                                                                     | T   | 0.320 Max        | (8.13 Max)        | 3000 VDC | .033 $\mu$ F           | 333  | .250 $\mu$ F           | 254  |
|                                                                                     | S   | 0.775 $\pm$ 0.03 | (19.7 $\pm$ 0.76) | 4000 VDC | .010 $\mu$ F           | 103  | .080 $\mu$ F           | 803  |
|                                                                                     | Ld  | 0.025 $\pm$ .002 | (0.64 $\pm$ 0.05) | 5000 VDC | 6800 pF                | 682  | .041 $\mu$ F           | 413  |
|  | In. | (mm)             |                   | 500 VDC  | .470 $\mu$ F           | 474  | 12.0 $\mu$ F           | 126  |
|                                                                                     | W   | 1.450 Max        | (36.8 Max)        | 1000 VDC | .150 $\mu$ F           | 154  | 4.60 $\mu$ F           | 465  |
|                                                                                     | H   | 0.720 Max        | (18.3 Max)        | 2000 VDC | .082 $\mu$ F           | 823  | 1.20 $\mu$ F           | 125  |
|                                                                                     | T   | 0.320 Max        | (8.13 Max)        | 3000 VDC | .047 $\mu$ F           | 473  | .390 $\mu$ F           | 394  |
|                                                                                     | S   | 1.375 $\pm$ 0.03 | (34.9 $\pm$ 0.76) | 4000 VDC | .015 $\mu$ F           | 153  | .130 $\mu$ F           | 134  |
|                                                                                     | Ld  | 0.025 $\pm$ .002 | (.064 $\pm$ 0.05) | 5000 VDC | .010 $\mu$ F           | 103  | .068 $\mu$ F           | 683  |

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NOTE: Lead lengths are typically 1.25" for orders in bulk packaging. Leads are typically 1.00" for tape and reel packaging. Tape and reel packaging comes in 1000 piece reels.

Consult factory for voltages up to 15KV and other tooled sizes such as 2020, 3327, 3640, & 4020

## HOW TO ORDER

|                                                                                                                                                                  |                        |                                  |                                                                                                                                                                  |                                                                              |                                          |                                          |                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------------------------------------|
| <b>102</b>                                                                                                                                                       | <b>H42</b>             | <b>W</b>                         | <b>101</b>                                                                                                                                                       | <b>K</b>                                                                     | <b>Q</b>                                 | <b>4</b>                                 |                                                                            |
| VOLTAGE<br>Standard Voltages:<br>501 = 500 V<br>102 = 1000 V<br>202 = 2000 V<br>302 = 3000 V<br>402 = 4000 V<br>502 = 5000 V<br>103 = 10000 V*<br>153 = 15000 V* | CASE SIZE<br>See Chart | DIELECTRIC<br>N = NPO<br>W = X7R | CAPACITANCE<br>1st two digits are significant; third digit denotes number of zeros.<br>101 = 100 pF<br>102 = 1000 pF<br>103 = 0.01 $\mu$ F<br>105 = 1.00 $\mu$ F | TOLERANCE<br>J = $\pm$ 5%<br>K = $\pm$ 10%<br>M = $\pm$ 20%<br>Z = +80% -20% | TERMINATION<br>Q = Leaded & Encapsulated | MARKING<br>4 = Standard<br>3 = Specified | SPECIAL MODIFIER<br>T = Tape and Reel<br>H = High Rel Testing per Customer |
| *Consult factory for availability                                                                                                                                |                        |                                  |                                                                                                                                                                  |                                                                              |                                          |                                          |                                                                            |

Part number written: 102H42W101KQ4