

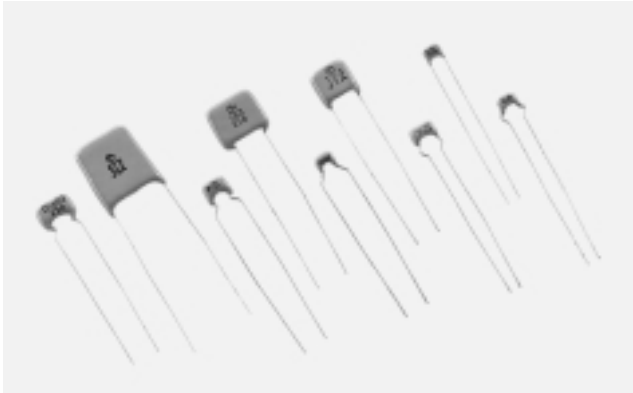
# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### CERAMIC RADIAL LEADED CAPACITORS



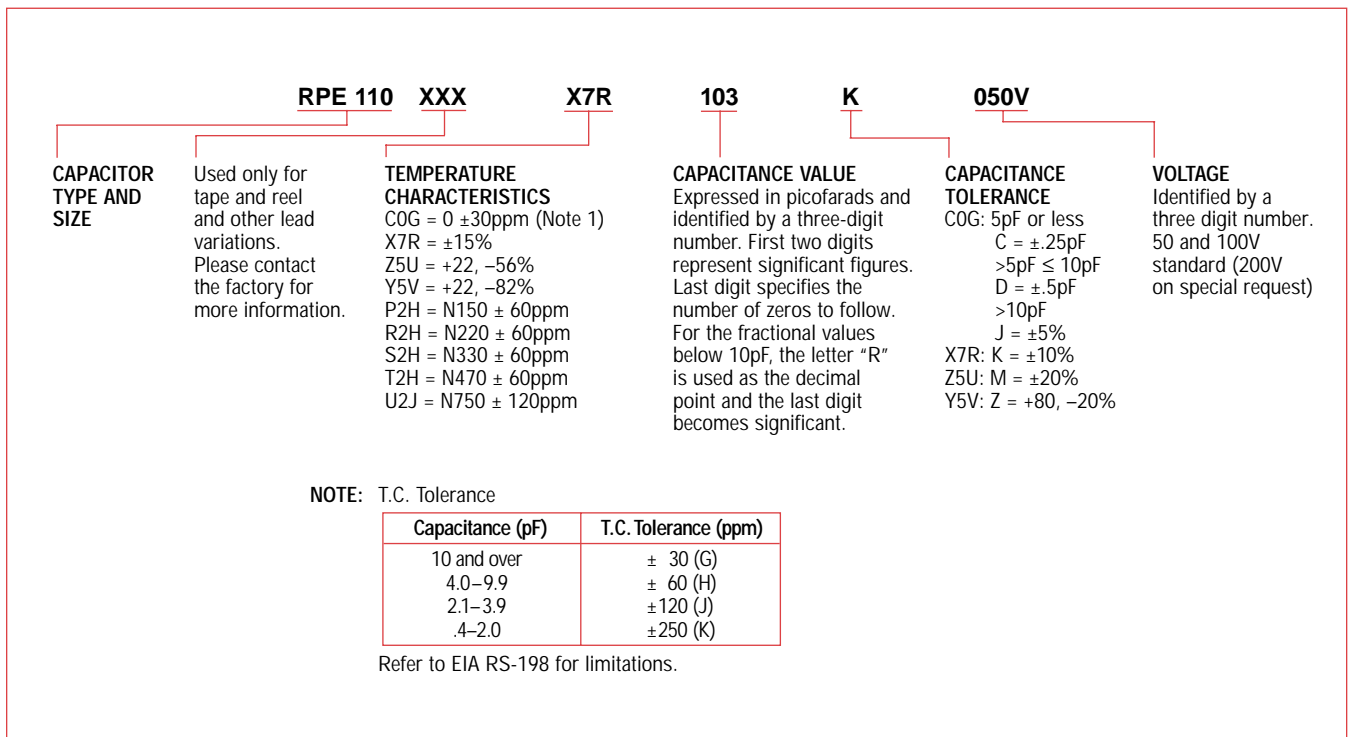
RPE 110-132 Series



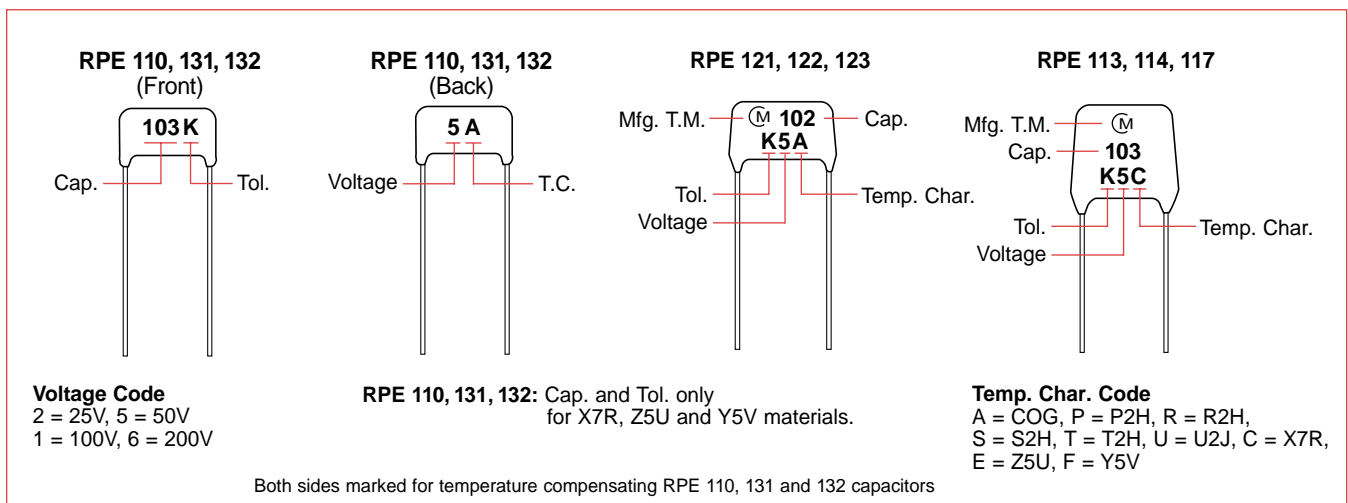
#### FEATURES

- Wide capacitance, T.C., voltage and tolerance range
- Industry standard sizes
- Tape and reel available for auto insertion
- Various lead spacing available
- Marking standard or to customer specification
- Epoxy coating meets UL94V-0

#### PART NUMBERING SYSTEM



#### MARKINGS



Note: High Reliability RPE Capacitors available. See page 136.

# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### CERAMIC LEADED CAPACITORS – COG TYPE

| DIMENSIONS: mm     |   |     |     |                  |      |     |                  |      |      |
|--------------------|---|-----|-----|------------------|------|-----|------------------|------|------|
|                    | Note: Lead length is measured from the bottom of the capacitor. |     |     |                  |      |     |                  |      |      |
| MURATA DESIGNATION | ★RPE 110 <sup>†</sup>   |     |     | ★RPE 131/RPE 132 |      |     | ★RPE 121/RPE 122 |      |      |
| L (max.)           | 3.5   |     |     | 5.1              |      |     | 5.1              |      |      |
| H (max.)           | 3.1   |     |     | 5.1              |      |     | 6.4              |      |      |
| T (max.)           | 2.5   |     |     | 3.2              |      |     | 3.2              |      |      |
| L.S.               | 2.5   |     |     | 2.5/5.1          |      |     | 2.5/5.1          |      |      |
| WVDC               | 50  | 100 | 200 | 50               | 100  | 200 | 50               | 100  | 200  |
| CAPACITANCE        |   |     |     |                  |      |     |                  |      |      |
| (pF) 1.0           | 1   | 1   | 1   | 1                | 1    | 1   | 1                | 1    | 1    |
| 10                 |   |     |     |                  |      |     |                  |      |      |
| 100                |   |     | 130 |                  |      | 390 |                  |      |      |
| 1000               | 1300  | 820 |     | 4300             | 1600 |     | 4700             | 4300 | 1100 |
| (μF) .01           |   |     |     |                  |      |     |                  |      |      |

★EIA values available as standard through authorized Murata Electronics Distributors.

<sup>†</sup> Bulk only.

Note: Capacitance values = EIA 24 Step = 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91  
For values under 1.0pF, contact your local Murata Electronics Sales Office.

LEADED CAPACITORS  
NETWORKS, AND  
HV CAPACITORS

# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

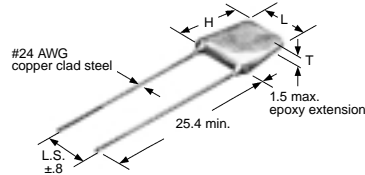
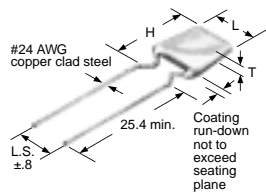
## MONOLITHIC LEADED CAPACITORS

### CERAMIC LEADED CAPACITORS – COG TYPE



RPE Series

DIMENSIONS: mm



Standard package and lead configurations shown. Other variations and tape and reel data are displayed on pages 69-70. All RPE wire is tinned copper clad steel wire. For other requirements, please contact your local sales office.

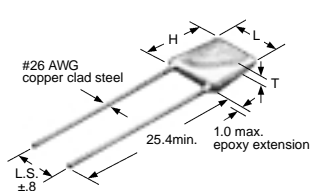
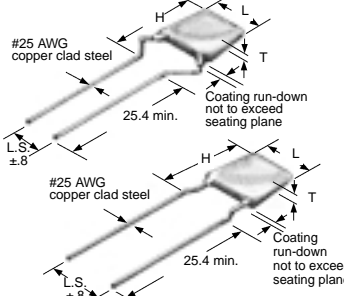
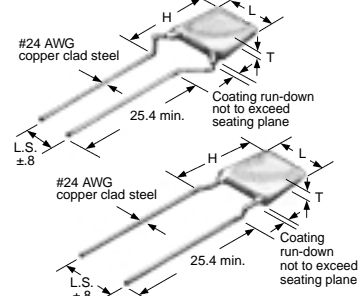
| MURATA DESIGNATION   | ★RPE 123 |      |      | ★RPE 113 |     |      | ★RPE 114 |      |     | ★RPE 117 <sup>†</sup> |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
|--|----------|------|------|----------|-----|------|----------|------|-----|-----------------------|------|------|------|------|------|------|--|------|------|------|--|------|------|------|--|------|------|------|------|--|------|------|--|--|------|------|------|
| L (max.)   | 7.6      |      |      | 7.6      |     |      | 10.2     |      |     | 12.7                  |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| H (max.)   | 7.0      |      |      | 7.6      |     |      | 10.2     |      |     | 12.7                  |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| T (max.)   | 3.2      |      |      | 4.0      |     |      | 4.0      |      |     | 5.1                   |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| L.S.   | 5.1      |      |      | 5.1      |     |      | 5.1      |      |     | 10.2                  |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| WVDC   | 50       | 100  | 200  | 50       | 100 | 200  | 50       | 100  | 200 | 50                    | 100  | 200  |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| CAPACITANCE  |          |      |      |          |     |      |          |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
|  | (pF) 1.0 |      |      |          |     |      |          |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| 10   |          |      |      |          |     |      |          |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| 100  |          |      |      |          |     |      |          |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| 1000   |          |      |      |          |     |      |          |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| <table border="1" style="width:100%; text-align:center;"> <tr> <td>5100</td> <td>4700</td> <td>1200</td> <td></td> <td>1800</td> <td></td> <td></td> <td>4300</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>6800</td> <td>1600</td> <td></td> <td>3900</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>                             |          |      |      |          |     |      |          |      |     |                       |      | 5100 | 4700 | 1200 |      | 1800 |  |      | 4300 |      |  |      |      |      |  | 6800 | 1600 |      | 3900 |  |      |      |  |  |      |      |      |
| 5100   | 4700     | 1200 |      | 1800     |     |      | 4300     |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
|  | 6800     | 1600 |      | 3900     |     |      |          |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| (μF) .01   |          |      |      |          |     |      |          |      |     |                       |      |      |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
| <table border="1" style="width:100%; text-align:center;"> <tr> <td>.016</td> <td></td> <td></td> <td>0.18</td> <td>.012</td> <td></td> <td>.022</td> <td>.013</td> <td>.010</td> <td></td> <td>.043</td> <td>.036</td> <td>.011</td> </tr> <tr> <td></td> <td></td> <td></td> <td>.020</td> <td></td> <td></td> <td>.039</td> <td>.033</td> <td></td> <td></td> <td>.068</td> <td>.056</td> <td>.030</td> </tr> </table> |          |      |      |          |     |      |          |      |     |                       |      | .016 |      |      | 0.18 | .012 |  | .022 | .013 | .010 |  | .043 | .036 | .011 |  |      |      | .020 |      |  | .039 | .033 |  |  | .068 | .056 | .030 |
| .016   |          |      | 0.18 | .012     |     | .022 | .013     | .010 |     | .043                  | .036 | .011 |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |
|  |          |      | .020 |          |     | .039 | .033     |      |     | .068                  | .056 | .030 |      |      |      |      |  |      |      |      |  |      |      |      |  |      |      |      |      |  |      |      |  |  |      |      |      |

\*EIA values available as standard through authorized Murata Electronics Distributors.  
<sup>†</sup> Bulk only.  
 Note: Capacitance values = EIA 24 Step = 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91  
 For values under 1.0pF, contact your local Murata Electronics Sales Office.

# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### CERAMIC LEADED CAPACITORS – X7R TYPE

| DIMENSIONS: mm  |                       |      |  |                  |     |   |                  |     |     |
|---|-----------------------|------|--|------------------|-----|---|------------------|-----|-----|
|  |                       |      |  |                  |     |  |                  |     |     |
| MURATA DESIGNATION  | ★RPE 110 <sup>†</sup> |      |  | ★RPE 131/RPE 132 |     |   | ★RPE 121/RPE 122 |     |     |
| L (max.)  | 3.5                   |      |  | 5.1              |     |   | 5.1              |     |     |
| H (max.)  | 3.1                   |      |  | 5.1              |     |   | 6.4              |     |     |
| T (max.)  | 2.5                   |      |  | 3.2              |     |   | 3.2              |     |     |
| L.S.  | 2.5                   |      |  | 2.5/5.1          |     |   | 2.5/5.1          |     |     |
| WVDC  | 50                    | 100  | 200  | 50               | 100 | 200   | 50               | 100 | 200 |
| CAPACITANCE   |                       |      |  |                  |     |   |                  |     |     |
| (pF) 100  | 220                   | 220  | 220  | 220              | 220 | 220   | 220              | 220 | 220 |
| 1000  |                       |      |  |                  |     |   |                  |     |     |
| (μF) .01  | .033                  | .012 | 5600   |                  |     |   | .01              |     |     |
| .1  |                       |      |  | .1               |     |   | .27              | .1  |     |
| 1.0   |                       |      |  |                  |     |   |                  |     |     |

LEADED CAPACITORS NETWORKS, AND HV CAPACITORS

For requirements not shown, please contact your local Murata Electronics Sales Office.  
 ★EIA values available as standard through authorized Murata Electronics Distributors.  
 † Bulk only.  
 Note: Capacitance values = EIA 12 Step = 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82

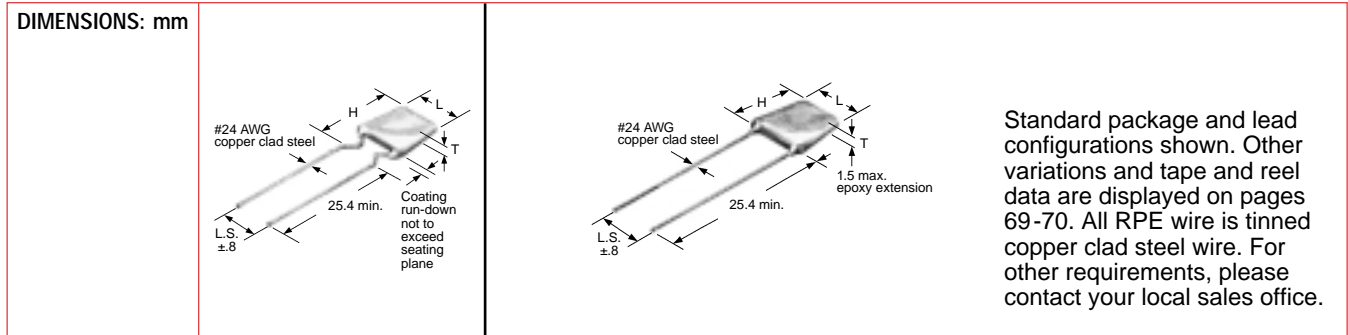
# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### CERAMIC LEADED CAPACITORS – X7R TYPE



RPE Series



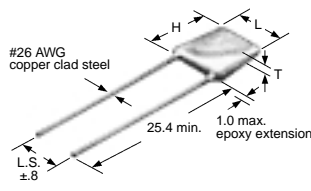
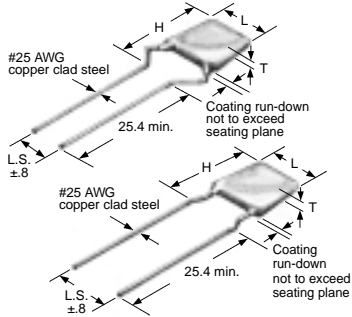
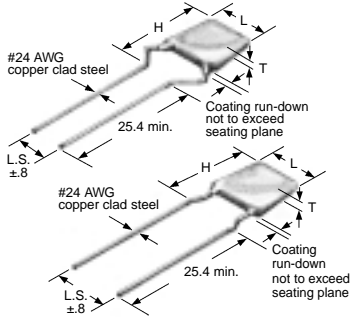
| MURATA DESIGNATION | ★RPE 123 |     |      | ★RPE 113 |     |     | ★RPE 114 |     |     | ★RPE 117 <sup>†</sup> |     |     |
|--------------------|----------|-----|------|----------|-----|-----|----------|-----|-----|-----------------------|-----|-----|
| L (max.)           | 7.6      |     |      | 7.6      |     |     | 10.2     |     |     | 12.7                  |     |     |
| H (max.)           | 7.0      |     |      | 7.6      |     |     | 10.2     |     |     | 12.7                  |     |     |
| T (max.)           | 3.2      |     |      | 4.0      |     |     | 4.0      |     |     | 5.1                   |     |     |
| L.S.               | 5.1      |     |      | 5.1      |     |     | 5.1      |     |     | 10.2                  |     |     |
| WVDC               | 50       | 100 | 200  | 50       | 100 | 200 | 50       | 100 | 200 | 50                    | 100 | 200 |
| CAPACITANCE        |          |     |      |          |     |     |          |     |     |                       |     |     |
|                    | (pF) 100 |     |      |          |     |     |          |     |     |                       |     |     |
|                    | 1000     |     |      |          |     |     |          |     |     |                       |     |     |
|                    | (μF) .01 |     |      |          |     |     |          |     |     |                       |     |     |
|                    |          |     | .056 |          |     |     |          |     |     |                       |     |     |
|                    |          | .12 | .082 |          |     |     |          |     |     |                       |     |     |
|                    | .33      | .15 |      |          | .18 | .1  |          |     |     | .22                   |     |     |
|                    | .47      |     |      | .56      | .47 | .18 |          |     | .56 | .56                   |     | .68 |
|                    |          |     |      |          |     |     | 1.2      |     |     |                       |     |     |
|                    |          |     |      | 1.0      |     |     | 1.8      | 1.0 |     |                       |     |     |
|                    |          |     |      |          |     |     |          |     |     | 2.2                   | 2.2 | 1.8 |

For requirements not shown, please contact your local Murata Electronics Sales Office.  
 ★EIA values available as standard through authorized Murata Electronics Distributors.  
<sup>†</sup> Bulk only.  
 Note: Capacitance values = EIA 12 Step = 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82

# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### Z5U TYPE

| DIMENSIONS: mm |  |                       |      |  |                  |      |  |                  |      |
|----------------|---|-----------------------|------|--|------------------|------|---|------------------|------|
|                | MURATA DESIGNATION  | ★RPE 110 <sup>†</sup> |      |  | ★RPE 131/RPE 132 |      |   | ★RPE 121/RPE 122 |      |
| L (max.)       | 3.5   |                       |      | 5.1  |                  |      | 5.1   |                  |      |
| H (max.)       | 3.1   |                       |      | 5.1  |                  |      | 6.4   |                  |      |
| T (max.)       | 2.5   |                       |      | 3.2  |                  |      | 3.2   |                  |      |
| L.S.           | 2.5   |                       |      | 2.5/5.1  |                  |      | 2.5/5.1   |                  |      |
| WVDC           | 50  | 100                   | 200  | 50   | 100              | 200  | 50  | 100              | 200  |
| CAPACITANCE    |   |                       |      |  |                  |      |   |                  |      |
| (pF) 1000      | 1000  | 1000                  | 1000 | 1000   | 1000             | 1000 | 1000  | 1000             | 1000 |
| (μF) .01       |   | .015                  | 3300 |  | .033             | 6800 |   |                  | .068 |
| .1             | .1  |                       |      | .15  |                  |      | .47   | .15              |      |
| 1.0            |   |                       |      |  |                  |      |   |                  |      |
| 10.0           |   |                       |      |  |                  |      |   |                  |      |

LEADED CAPACITORS, NETWORKS, AND HV CAPACITORS

For requirements not shown, please contact your local Murata Electronics Sales Office.

★EIA values available as standard through authorized Murata Electronics Distributors.

<sup>†</sup> Bulk only.

Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68

# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

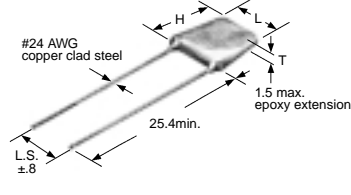
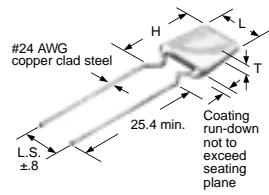
## MONOLITHIC LEADED CAPACITORS

### Z5U TYPE



RPE Series

DIMENSIONS: mm



Standard package and lead configurations shown. Other variations and tape and reel data are displayed on pages 69-70. All RPE wire is tinned copper clad steel wire. For other requirements, please contact your local sales office.

| MURATA DESIGNATION | ★RPE 123 |     |     |     | ★RPE 113 |     |     | ★RPE 114 |     |     | ★RPE 117† |     |     |  |
|--------------------|----------|-----|-----|-----|----------|-----|-----|----------|-----|-----|-----------|-----|-----|--|
| L (max.)           | 7.6      |     |     |     | 7.6      |     |     | 10.2     |     |     | 12.7      |     |     |  |
| H (max.)           | 7.0      |     |     |     | 7.6      |     |     | 10.2     |     |     | 12.7      |     |     |  |
| T (max.)           | 3.2      |     |     |     | 4.0      |     |     | 4.0      |     |     | 5.1       |     |     |  |
| L.S.               | 5.1      |     |     |     | 5.1      |     |     | 5.1      |     |     | 10.2      |     |     |  |
| WVDC               | 25       | 50  | 100 | 200 | 50       | 100 | 200 | 50       | 100 | 200 | 50        | 100 | 200 |  |
| CAPACITANCE        |          |     |     |     |          |     |     |          |     |     |           |     |     |  |
| (pF) 1000          |          |     |     |     |          |     |     |          |     |     |           |     |     |  |
| (μF) .01           |          |     |     |     |          |     |     |          |     |     |           |     |     |  |
| .1                 |          |     | N/A | N/A |          | .22 | .10 |          |     | .15 |           |     |     |  |
| .1                 |          | .47 |     |     |          | .47 |     |          |     | .33 |           |     | .47 |  |
| 1.0                | 1.0      | 1.0 |     |     | 1.0      |     |     |          | .68 |     |           |     | .68 |  |
| 1.0                | 1.5      |     |     |     | 1.5      |     |     | 1.5      | 1.0 |     |           | 2.2 | 1.5 |  |
| 10.0               |          |     |     |     |          |     |     | 2.2      |     |     | 4.7       | 2.2 |     |  |

For requirements not shown, please contact your local Murata Electronics Sales Office.

★EIA values available as standard through authorized Murata Electronics Distributors.

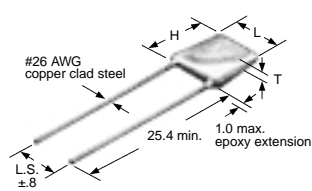
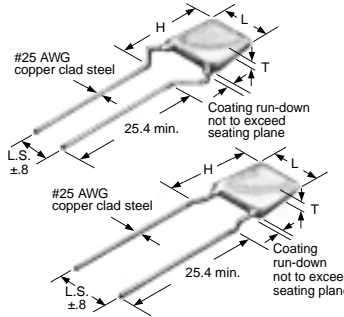
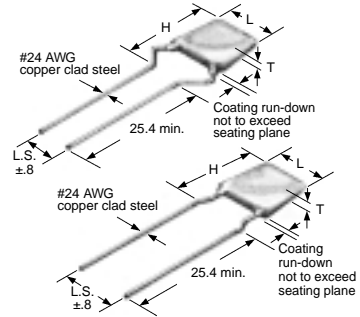
† Bulk only.

Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68

# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### CONFORMAL COATED RADIAL LEADS – Y5V TYPE

| DIMENSIONS: mm     |  |      |     |                  |      |     |                 |      |     |
|--------------------|---|------|-----|--|------|-----|--|------|-----|
|                    | #26 AWG copper clad steel<br>25.4 min.<br>1.0 max. epoxy extension<br>L.S. ±.8    |      |     | #25 AWG copper clad steel<br>25.4 min.<br>Coating run-down not to exceed seating plane<br>L.S. ±.8 |      |     | #24 AWG copper clad steel<br>25.4 min.<br>Coating run-down not to exceed seating plane<br>L.S. ±.8 |      |     |
| MURATA DESIGNATION | ★RPE 110 <sup>†</sup>   |      |     | ★RPE 131/RPE 132   |      |     | ★RPE 121/RPE 122   |      |     |
| L (max.)           | 3.5   |      |     | 5.1  |      |     | 5.1  |      |     |
| H (max.)           | 3.1   |      |     | 5.1  |      |     | 6.4  |      |     |
| T (max.)           | 2.5   |      |     | 3.2  |      |     | 3.2  |      |     |
| L.S.               | 2.5   |      |     | 2.5/5.1  |      |     | 2.5/5.1  |      |     |
| WVDC               | 50  | 100  | 200 | 50   | 100  | 200 | 50   | 100  | 200 |
| CAPACITANCE        |   |      |     |  |      |     |  |      |     |
| (pF) 1000          |   |      |     |  |      |     | 1000   | 1000 | N/A |
| (μF) .01           | .01   | .01  | N/A | .01  | .01  | N/A |  |      |     |
|                    |   | .015 |     |  | .033 |     |  |      |     |
| .1                 | .1  |      |     | .22  |      |     |  |      |     |
| 1.0                |   |      |     |  |      |     | .47  |      |     |
| 10.0               |   |      |     |  |      |     |  |      |     |

LEADED CAPACITORS, NETWORKS, AND HV CAPACITORS

For requirements not shown, please contact your local Murata Electronics Sales Office.

\*EIA values available as standard through authorized Murata Electronics Distributors.

<sup>†</sup> Bulk only.

Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68



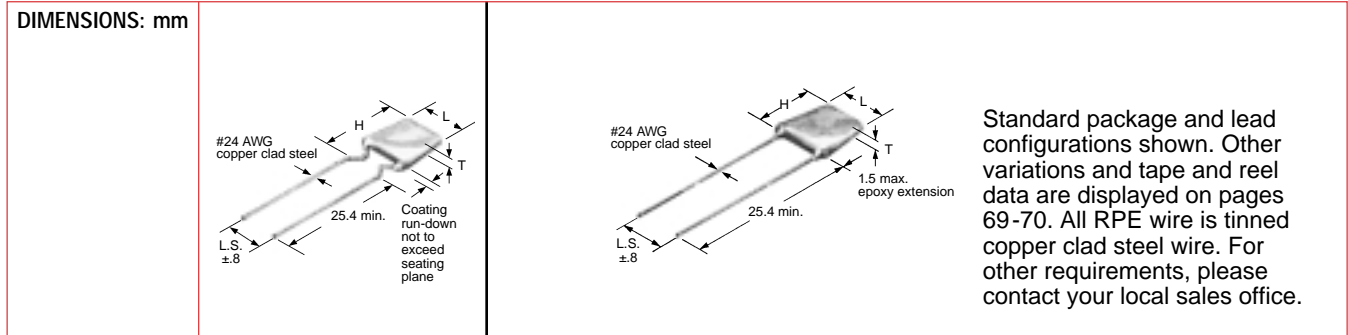
# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### CONFORMAL COATED RADIAL LEADS – Y5V TYPE



RPE Series



| MURATA DESIGNATION | ★RPE 123  |     |     | ★RPE 113 |     |     | ★RPE 114 |     |     | ★RPE 117 <sup>†</sup> |     |     |
|--------------------|-----------|-----|-----|----------|-----|-----|----------|-----|-----|-----------------------|-----|-----|
| L (max.)           | 7.6       |     |     | 7.6      |     |     | 10.2     |     |     | 12.7                  |     |     |
| H (max.)           | 7.0       |     |     | 7.6      |     |     | 10.2     |     |     | 12.7                  |     |     |
| T (max.)           | 3.2       |     |     | 4.0      |     |     | 4.0      |     |     | 5.1                   |     |     |
| L.S.               | 5.1       |     |     | 5.1      |     |     | 5.1      |     |     | 10.2                  |     |     |
| WVDC               | 50        | 100 | 200 | 50       | 100 | 200 | 50       | 100 | 200 | 50                    | 100 | 200 |
| CAPACITANCE        |           |     |     |          |     |     |          |     |     |                       |     |     |
|                    | (pF) 1000 |     |     |          |     |     |          |     |     |                       |     |     |
|                    | (μF) .01  |     |     |          |     |     |          |     |     |                       |     |     |
|                    | .1        | .1  | N/A | .22      | N/A | N/A | .68      | N/A | N/A | N/A                   | N/A | N/A |
| 1.0                | .47       | .15 | .47 | 1.0      | 1.5 | 1.5 | 1.0      | 4.7 | 1.5 | 2.2                   | 1.5 |     |
| 10.0               | 1.0       |     |     |          |     |     |          |     |     | 6.8                   | 2.2 |     |

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 ★EIA values available as standard through authorized Murata Electronics Distributors.  
<sup>†</sup> Bulk only.  
 Note: Capacitance values = EIA 6 Step = 10, 15, 22, 33, 47, 68

# LEADED CAPACITORS, NETWORKS & HV CAPACITORS

## MONOLITHIC LEADED CAPACITORS

### TEMPERATURE COMPENSATING TYPE

| DIMENSIONS: mm                     |                 |            |                         |            |
|------------------------------------|-----------------|------------|-------------------------|------------|
| <b>MURATA DESIGNATION</b>          | <b>★RPE 110</b> |            | <b>★RPE 121/RPE 122</b> |            |
| <b>L (max.)</b>                    | 3.5             |            | 5.1                     |            |
| <b>H (max.)</b>                    | 3.1             |            | 6.4                     |            |
| <b>T (max.)</b>                    | 2.5             |            | 3.2                     |            |
| <b>L.S.</b>                        | 2.5             |            | 2.5/5.1                 |            |
| <b>WVDC</b>                        | <b>50</b>       | <b>100</b> | <b>50</b>               | <b>100</b> |
| TC: N150 (P2H)<br>Cap. Range: (pF) | 1               | 1          | 1                       | 1          |
|                                    | 360             | 360        |                         |            |
|                                    |                 |            | 2400                    | 2200       |
| TC: N220 (R2H)<br>Cap. Range: (pF) | 1               | 1          | 1                       | 1          |
|                                    | 560             | 560        |                         |            |
|                                    |                 |            | 2700                    | 2400       |
| TC: N330 (S2H)<br>Cap. Range: (pF) | 1               | 1          | 1                       | 1          |
|                                    | 470             | 430        |                         |            |
|                                    |                 |            | 3300                    | 3000       |
| TC N470 (T2H)<br>Cap. Range: (pF)  | 1               | 1          | 1                       | 1          |
|                                    | 390             | 510        |                         | 240        |
|                                    |                 |            | 1200                    |            |
| TC: N750 (U2J)<br>Cap. Range: (pF) | 1               | 1          | 15                      | 15         |
|                                    | 1800            | 910        |                         |            |
|                                    |                 |            | 7500                    | 4700       |

**Note:** Capacitance values = EIA 24 Step = 10, 11, 12, 13, 15, 16, 18, 20, 22, 24, 27, 30, 33, 36, 39, 43, 47, 51, 56, 62, 68, 75, 82, 91  
For values under 1.0pF, contact your local Murata Electronics Sales Office.

**LEADED CAPACITORS  
NETWORKS, AND  
HV CAPACITORS**