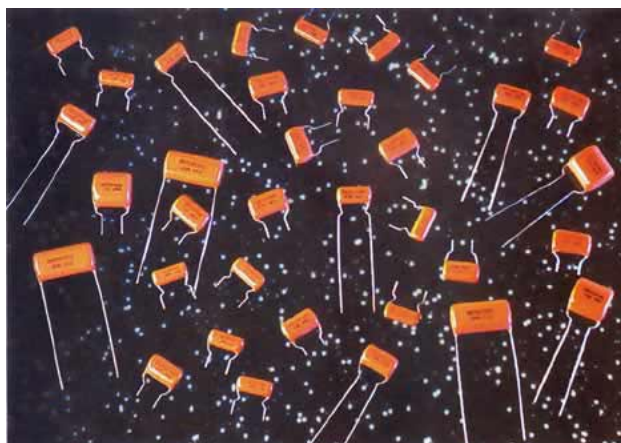


## Type 425M Orange Drop<sup>®</sup> Metallized Polyester Film Capacitors

### Features

- Radial-lead
- Pressed profile
- Non-inductively wound
- Compact size
- Self-healing properties



### Specifications

**Capacitance Range:**

012 to 12.0  $\mu$ F

**Capacitance Tolerance:**

$\pm$ 5%,  $\pm$ 10%

**Voltage Ratings:**

100 to 630 Volts D-C  
63 to 250 Volts A-C

**Operating Temperature Range:**

-55°C to +85°C (at full voltage)

**Voltage Derating:**

At +105°C, 70% of +85°C rating.  
At +125°C, 50% of +85°C rating

**Pulse Rise Time (dV/dt):**

See standard ratings table dV/dt rating is in Volts/ $\mu$ sec.

**Insulation Resistance:**

At +25°C: 10,000 M $\Omega$  for C  $\leq$  1.0  $\mu$ F  
10,000 M $\Omega$ - $\mu$ F for C > 1.0  $\mu$ F  
At +85°C 1,000 M $\Omega$  for C  $\leq$  1.0  $\mu$ F  
1,000 M $\Omega$ - $\mu$ F for C > 1.0  $\mu$ F

**Dissipation Factor:**

1.0% Maximum @ 1 KHz, +25°C

**Encapsulation:**

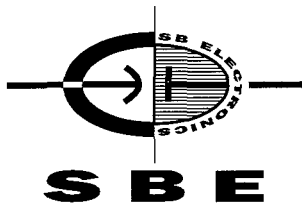
Conformal coating of orange, flame retardant epoxy. Meets UL94V-0 specifications.

**Lead Wire:**

Tinned copper-clad steel,  
.032 (0.8) diameter, #20 AWG.

**Dielectric/Construction:**

Metallized Polyester film, single section design Non-inductively wound.



### Ordering/Part Number Information



### Standard Marking Format

**Sample Marking on unit**

SBE425M250V  
105K 9910

**Description**

SBE - SB Electronics identification  
 425M - Type number  
 250V - D-C Voltage rating, Volts  
 105K - Capacitance and tolerance code  
 9910 - Weekly date code  
 (i.e. 10th week of 1999)

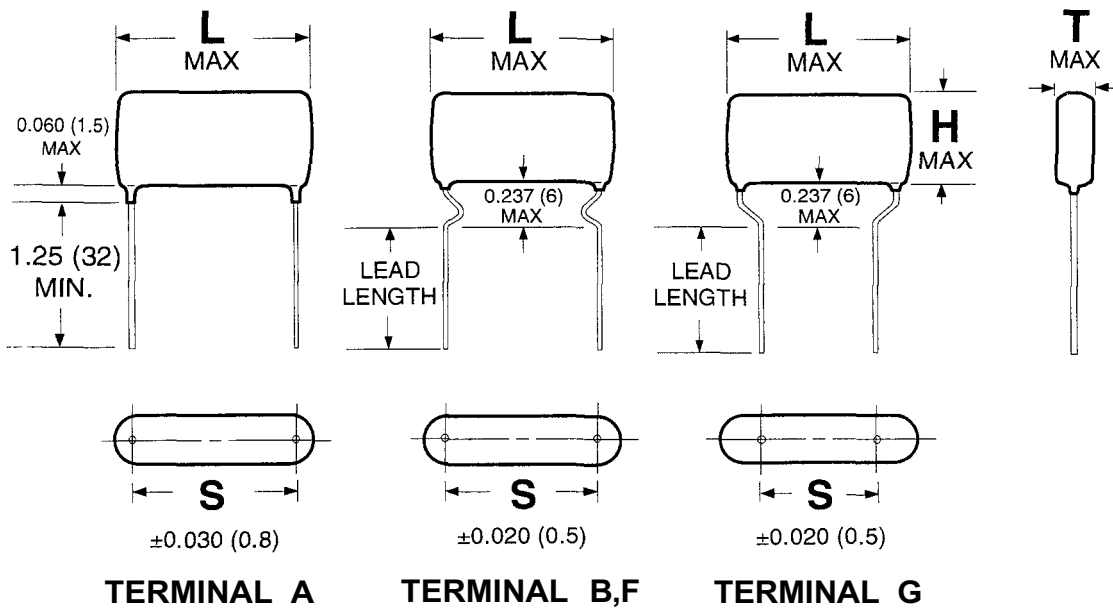
**Tolerance codes per EIA Standards**

J ±5%  
K ±10%

Dimensions in inches, metric (mm) in parenthesis.

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**Standard Lead Styles**



**Standard Lead Spacings**

| CASE CODE | S            |              |              |              |
|-----------|--------------|--------------|--------------|--------------|
|           | Term. A      | Term. B      | Term. F      | Term. G      |
| N         | 0.394 (10.0) | 0.394 (10.0) | 0.295 (7.5)  | 0.197 (5.0)  |
| J         | 0.590 (15.0) | 0.590 (15.0) | 0.394 (10.0) | 0.295 (7.5)  |
| R         | 0.886 (22.5) | 0.886 (22.5) | 0.590 (15.0) | 0.394 (10.0) |
| L         | 1.083 (27.5) | 1.083 (27.5) | 0.886 (22.5) | 0.590 (15.0) |

Dimensions in inches, metric (mm) in parenthesis.

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### Type 425M Standard Sizes/Ratings

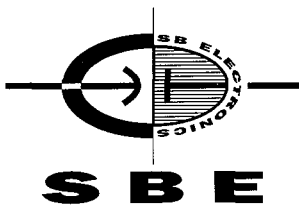
| Value<br>( $\mu$ F)      | Part Number <sup>1</sup> | L MAX       | T MAX      | H MAX      | dV/dt<br>Volts/ $\mu$ sec | Value<br>( $\mu$ F)       | Part Number <sup>1</sup> | L MAX       | T MAX      | H MAX      | dV/dt<br>Volts/ $\mu$ sec |
|--------------------------|--------------------------|-------------|------------|------------|---------------------------|---------------------------|--------------------------|-------------|------------|------------|---------------------------|
| <b>100 VDC / 63 VAC*</b> |                          |             |            |            |                           | <b>250 VDC / 160 VAC*</b> |                          |             |            |            |                           |
| 0.33                     | 425M33491N               | .52 (13.2)  | .24 (6.1)  | .38 (9.7)  | 38                        | 0.12                      | 425M12492N               | .52 (13.2)  | .23 (5.8)  | .37 (9.4)  | 59                        |
| 0.39                     | 425M39491N               | .52 (13.2)  | .24 (6.1)  | .42 (10.7) | 46                        | 0.15                      | 425M15492N               | .52 (13.2)  | .24 (6.1)  | .41 (10.4) | 77                        |
| 0.43                     | 425M43491N               | .52 (13.2)  | .24 (6.1)  | .45 (11.4) | 50                        | 0.18                      | 425M18492N               | .52 (13.2)  | .24 (6.1)  | .45 (11.4) | 89                        |
| 0.47                     | 425M47491N               | .52 (13.2)  | .25 (6.4)  | .46 (11.7) | 54                        | 0.22                      | 425M22492N               | .52 (13.2)  | .26 (6.6)  | .47 (11.9) | 100                       |
| 0.5                      | 425M50491N               | .52 (13.2)  | .26 (6.6)  | .46 (11.7) | 56                        | 0.25                      | 425M25492N               | .52 (13.2)  | .28 (7.1)  | .49 (12.4) | 107                       |
| 0.56                     | 425M56491N               | .52 (13.2)  | .27 (6.9)  | .48 (12.2) | 60                        | 0.27                      | 425M27492N               | .52 (13.2)  | .29 (7.4)  | .50 (12.7) | 110                       |
| 0.62                     | 425M62491N               | .52 (13.2)  | .28 (7.1)  | .49 (12.4) | 63                        | 0.3                       | 425M30492N               | .52 (13.2)  | .30 (7.6)  | .51 (13.0) | 114                       |
| 0.68                     | 425M68491N               | .52 (13.2)  | .29 (7.4)  | .50 (12.7) | 65                        | 0.33                      | 425M33492N               | .52 (13.2)  | .32 (8.1)  | .52 (13.2) | 118                       |
| 0.75                     | 425M75491N               | .52 (13.2)  | .31 (7.9)  | .52 (13.2) | 68                        | 0.39                      | 425M39492J               | .73 (18.5)  | .23 (5.8)  | .50 (12.7) | 47                        |
| 0.82                     | 425M82491N               | .52 (13.2)  | .30 (7.6)  | .57 (14.5) | 70                        | 0.43                      | 425M43492J               | .73 (18.5)  | .24 (6.1)  | .51 (13.0) | 50                        |
| 0.9                      | 425M90491N               | .52 (13.2)  | .31 (7.9)  | .58 (14.7) | 72                        | 0.47                      | 425M47492J               | .73 (18.5)  | .25 (6.4)  | .52 (13.2) | 52                        |
| 1.0                      | 425M10591N               | .52 (13.2)  | .33 (8.4)  | .60 (15.2) | 74                        | 0.5                       | 425M50492J               | .73 (18.5)  | .26 (6.6)  | .53 (13.5) | 53                        |
| 1.2                      | 425M12591J               | .73 (18.5)  | .26 (6.6)  | .53 (13.5) | 31                        | 0.56                      | 425M56492J               | .73 (18.5)  | .27 (6.9)  | .54 (13.7) | 56                        |
| 1.5                      | 425M15591J               | .73 (18.5)  | .29 (7.4)  | .56 (14.2) | 34                        | 0.62                      | 425M62492J               | .73 (18.5)  | .29 (7.4)  | .56 (14.2) | 58                        |
| 1.8                      | 425M18591J               | .73 (18.5)  | .31 (7.9)  | .58 (14.7) | 36                        | 0.68                      | 425M68492J               | .73 (18.5)  | .30 (7.6)  | .57 (14.5) | 59                        |
| 2.0                      | 425M20591J               | .73 (18.5)  | .33 (8.4)  | .60 (15.2) | 37                        | 0.75                      | 425M75492J               | .73 (18.5)  | .31 (7.9)  | .58 (14.7) | 61                        |
| 2.2                      | 425M22591J               | .73 (18.5)  | .34 (8.6)  | .62 (15.7) | 38                        | 0.82                      | 425M82492J               | .73 (18.5)  | .33 (8.4)  | .60 (15.2) | 62                        |
| 2.5                      | 425M25591J               | .73 (18.5)  | .37 (9.4)  | .64 (16.3) | 39                        | 0.9                       | 425M90492J               | .73 (18.5)  | .34 (8.6)  | .61 (15.5) | 63                        |
| 2.7                      | 425M27591J               | .73 (18.5)  | .38 (9.7)  | .65 (16.5) | 39                        | 1.0                       | 425M10592J               | .73 (18.5)  | .36 (9.1)  | .63 (16.0) | 65                        |
| 3.0                      | 425M30591J               | .73 (18.5)  | .40 (10.2) | .67 (17.0) | 40                        | 1.2                       | 425M12592J               | .73 (18.5)  | .39 (9.9)  | .67 (17.0) | 67                        |
| 3.3                      | 425M33591J               | .73 (18.5)  | .42 (10.7) | .69 (17.5) | 41                        | 1.5                       | 425M15592J               | .73 (18.5)  | .42 (10.7) | .75 (19.1) | 68                        |
| 3.6                      | 425M36591R               | 1.03 (26.2) | .34 (8.6)  | .61 (15.5) | 22                        | 1.8                       | 425M18592R               | 1.03 (26.2) | .35 (8.9)  | .69 (17.5) | 39                        |
| 3.9                      | 425M39591R               | 1.03 (26.2) | .33 (8.4)  | .67 (17.0) | 23                        | 2.0                       | 425M20592R               | 1.03 (26.2) | .37 (9.4)  | .71 (18.0) | 39                        |
| 4.3                      | 425M43591R               | 1.03 (26.2) | .35 (8.9)  | .68 (17.3) | 23                        | 2.2                       | 425M22592R               | 1.03 (26.2) | .39 (9.9)  | .72 (18.3) | 40                        |
| 4.7                      | 425M47591R               | 1.03 (26.2) | .36 (9.1)  | .70 (17.8) | 23                        | 2.5                       | 425M25592R               | 1.03 (26.2) | .41 (10.4) | .75 (19.1) | 41                        |
| 5.0                      | 425M50591R               | 1.03 (26.2) | .37 (9.4)  | .71 (18.0) | 24                        | 2.7                       | 425M27592R               | 1.03 (26.2) | .43 (10.9) | .77 (19.6) | 41                        |
| 5.6                      | 425M56591R               | 1.03 (26.2) | .40 (10.2) | .73 (18.5) | 24                        | 3.0                       | 425M30592R               | 1.03 (26.2) | .45 (11.4) | .79 (20.1) | 41                        |
| 6.0                      | 425M60591R               | 1.03 (26.2) | .41 (10.4) | .75 (19.1) | 24                        | 3.3                       | 425M33592R               | 1.03 (26.2) | .48 (12.2) | .82 (20.8) | 42                        |
| 6.2                      | 425M62591R               | 1.03 (26.2) | .42 (10.7) | .76 (19.3) | 24                        | 3.6                       | 425M36592R               | 1.03 (26.2) | .50 (12.7) | .84 (21.3) | 42                        |
| 6.8                      | 425M68591R               | 1.03 (26.2) | .44 (11.2) | .78 (19.8) | 25                        | 3.9                       | 425M39592R               | 1.03 (26.2) | .52 (13.2) | .86 (21.8) | 42                        |
| 7.0                      | 425M70591R               | 1.03 (26.2) | .45 (11.4) | .78 (19.8) | 25                        | 4.3                       | 425M43592R               | 1.03 (26.2) | .55 (14.0) | .89 (22.6) | 43                        |
| 7.5                      | 425M75591R               | 1.03 (26.2) | .46 (11.7) | .80 (20.3) | 25                        | 4.7                       | 425M47592R               | 1.03 (26.2) | .55 (14.0) | .96 (24.4) | 43                        |
| 8.0                      | 425M80591R               | 1.03 (26.2) | .48 (12.2) | .82 (20.8) | 25                        | 5.0                       | 425M50592L               | 1.23 (31.2) | .50 (12.7) | .90 (22.9) | 33                        |
| 8.2                      | 425M82591R               | 1.03 (26.2) | .48 (12.2) | .82 (20.8) | 25                        | 5.6                       | 425M56592L               | 1.23 (31.2) | .53 (13.5) | .94 (23.9) | 34                        |
| 10.0                     | 425M10691R               | 1.03 (26.2) | .54 (13.7) | .88 (22.4) | 26                        | 6.0                       | 425M60592L               | 1.23 (31.2) | .55 (14.0) | .96 (24.4) | 34                        |
| 11.0                     | 425M11691R               | 1.03 (26.2) | .57 (14.5) | .91 (23.1) | 26                        | 6.2                       | 425M62592L               | 1.23 (31.2) | .56 (14.2) | .97 (24.6) | 34                        |
| 12.0                     | 425M12691R               | 1.03 (26.2) | .59 (15.0) | .93 (23.6) | 26                        |                           |                          |             |            |            |                           |

\* 60 Hz., RMS

<sup>1</sup> To complete part number for specific tolerance, terminal style and lead length please refer to Ordering/Part Number Information page.

Dimensions in inches, metric (mm) in parenthesis.

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**Type 425M Standard Sizes/Ratings**

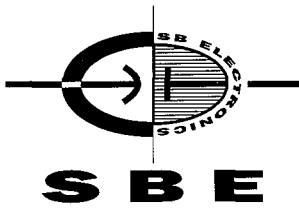
| Value<br>( $\mu$ F)       | Part Number <sup>1</sup> | L MAX       | T MAX      | H MAX      | dV/dt<br>Volts/ $\mu$ sec | Value<br>( $\mu$ F)       | Part Number <sup>1</sup> | L MAX       | T MAX      | H MAX      | dV/dt<br>Volts/ $\mu$ sec |
|---------------------------|--------------------------|-------------|------------|------------|---------------------------|---------------------------|--------------------------|-------------|------------|------------|---------------------------|
| <b>400 VDC / 200 VAC*</b> |                          |             |            |            |                           | <b>630 VDC / 250 VAC*</b> |                          |             |            |            |                           |
| 0.047                     | 425M47394N               | .52 (13.2)  | .23 (5.8)  | .37 (9.4)  | 112                       | 0.012                     | 425M12396N               | .52 (13.2)  | .23 (5.8)  | .35 (8.9)  | 160                       |
| 0.05                      | 425M50394N               | .52 (13.2)  | .23 (5.8)  | .38 (9.7)  | 122                       | 0.015                     | 425M15396N               | .52 (13.2)  | .25 (6.4)  | .37 (9.4)  | 233                       |
| 0.056                     | 425M56394N               | .52 (13.2)  | .22 (5.6)  | .43 (10.9) | 137                       | 0.018                     | 425M18396N               | .52 (13.2)  | .24 (6.1)  | .44 (11.2) | 277                       |
| 0.062                     | 425M62394N               | .52 (13.2)  | .23 (5.8)  | .44 (11.2) | 149                       | 0.022                     | 425M22396N               | .52 (13.2)  | .26 (6.6)  | .46 (11.7) | 321                       |
| 0.068                     | 425M68394N               | .52 (13.2)  | .24 (6.1)  | .45 (11.4) | 160                       | 0.025                     | 425M25396N               | .52 (13.2)  | .27 (6.9)  | .48 (12.2) | 345                       |
| 0.07                      | 425M70394N               | .52 (13.2)  | .24 (6.1)  | .45 (11.4) | 163                       | 0.027                     | 425M27396N               | .52 (13.2)  | .28 (7.1)  | .49 (12.4) | 358                       |
| 0.075                     | 425M75394N               | .52 (13.2)  | .25 (6.4)  | .46 (11.7) | 170                       | 0.03                      | 425M30396N               | .52 (13.2)  | .29 (7.4)  | .50 (12.7) | 375                       |
| 0.082                     | 425M82394N               | .52 (13.2)  | .26 (6.6)  | .47 (11.9) | 178                       | 0.033                     | 425M33396N               | .52 (13.2)  | .31 (7.9)  | .51 (13.0) | 388                       |
| 0.1                       | 425M10494N               | .52 (13.2)  | .28 (7.1)  | .49 (12.4) | 195                       | 0.039                     | 425M39396N               | .52 (13.2)  | .31 (7.9)  | .58 (14.7) | 408                       |
|                           |                          |             |            |            |                           | 0.043                     | 425M43396N               | .52 (13.2)  | .32 (8.1)  | .59 (15.0) | 419                       |
| 0.12                      | 425M12494J               | .73 (18.5)  | .22 (5.6)  | .42 (10.7) | 59                        | 0.047                     | 425M47396N               | .52 (13.2)  | .34 (8.6)  | .61 (15.5) | 428                       |
| 0.15                      | 425M15494J               | .73 (18.5)  | .22 (5.6)  | .49 (12.4) | 72                        | 0.05                      | 425M50396N               | .52 (13.2)  | .35 (8.9)  | .62 (15.7) | 434                       |
| 0.18                      | 425M18494J               | .73 (18.5)  | .24 (6.1)  | .51 (13.0) | 80                        |                           |                          |             |            |            |                           |
| 0.22                      | 425M22494J               | .73 (18.5)  | .26 (6.6)  | .53 (13.5) | 87                        | 0.056                     | 425M56396J               | .73 (18.5)  | .26 (6.6)  | .46 (11.7) | 124                       |
| 0.25                      | 425M25494J               | .73 (18.5)  | .28 (7.1)  | .55 (14.0) | 91                        | 0.062                     | 425M62396J               | .73 (18.5)  | .27 (6.9)  | .47 (11.9) | 132                       |
| 0.27                      | 425M27494J               | .73 (18.5)  | .29 (7.4)  | .56 (14.2) | 93                        | 0.068                     | 425M68396J               | .73 (18.5)  | .28 (7.1)  | .48 (12.2) | 138                       |
|                           |                          |             |            |            |                           | 0.07                      | 425M70396J               | .73 (18.5)  | .28 (7.1)  | .49 (12.4) | 140                       |
| 0.3                       | 425M30494J               | .73 (18.5)  | .30 (7.6)  | .57 (14.5) | 96                        | 0.075                     | 425M75396J               | .73 (18.5)  | .29 (7.4)  | .50 (12.7) | 144                       |
| 0.33                      | 425M33494J               | .73 (18.5)  | .30 (7.6)  | .63 (16.0) | 98                        | 0.082                     | 425M82396J               | .73 (18.5)  | .30 (7.6)  | .51 (13.0) | 149                       |
| 0.39                      | 425M39494J               | .73 (18.5)  | .32 (8.1)  | .66 (16.8) | 102                       | 0.1                       | 425M10496J               | .73 (18.5)  | .31 (7.9)  | .58 (14.7) | 159                       |
| 0.43                      | 425M43494J               | .73 (18.5)  | .34 (8.6)  | .68 (17.3) | 104                       | 0.12                      | 425M12496J               | .73 (18.5)  | .34 (8.6)  | .61 (15.5) | 166                       |
| 0.47                      | 425M47494J               | .73 (18.5)  | .35 (8.9)  | .69 (17.5) | 105                       | 0.15                      | 425M15496J               | .73 (18.5)  | .35 (8.9)  | .69 (17.5) | 174                       |
| 0.5                       | 425M50494J               | .73 (18.5)  | .37 (9.4)  | .70 (17.8) | 106                       | 0.18                      | 425M18496J               | .73 (18.5)  | .39 (9.9)  | .72 (18.3) | 179                       |
|                           |                          |             |            |            |                           | 0.22                      | 425M22496J               | .73 (18.5)  | .43 (10.9) | .77 (19.6) | 183                       |
| 0.56                      | 425M56494R               | 1.03 (26.2) | .29 (7.4)  | .63 (16.0) | 56                        | 0.25                      | 425M25496J               | .73 (18.5)  | .46 (11.7) | .80 (20.3) | 186                       |
| 0.62                      | 425M62494R               | 1.03 (26.2) | .31 (7.9)  | .64 (16.3) | 57                        |                           |                          |             |            |            |                           |
| 0.68                      | 425M68494R               | 1.03 (26.2) | .32 (8.1)  | .66 (16.8) | 58                        | 0.27                      | 425M27496R               | 1.03 (26.2) | .35 (8.9)  | .69 (17.5) | 94                        |
| 0.75                      | 425M75494R               | 1.03 (26.2) | .34 (8.6)  | .67 (17.0) | 59                        | 0.3                       | 425M30496R               | 1.03 (26.2) | .37 (9.4)  | .71 (18.0) | 96                        |
|                           |                          |             |            |            |                           | 0.33                      | 425M33496R               | 1.03 (26.2) | .39 (9.9)  | .72 (18.3) | 98                        |
| 0.82                      | 425M82494R               | 1.03 (26.2) | .35 (8.9)  | .69 (17.5) | 60                        | 0.39                      | 425M39496R               | 1.03 (26.2) | .42 (10.7) | .76 (19.3) | 100                       |
| 0.9                       | 425M90494R               | 1.03 (26.2) | .37 (9.4)  | .71 (18.0) | 61                        | 0.43                      | 425M43496R               | 1.03 (26.2) | .44 (11.2) | .78 (19.8) | 101                       |
| 1.0                       | 425M10594R               | 1.03 (26.2) | .39 (9.9)  | .73 (18.5) | 62                        | 0.47                      | 425M47496R               | 1.03 (26.2) | .46 (11.7) | .80 (20.3) | 102                       |
| 1.2                       | 425M12594R               | 1.03 (26.2) | .43 (10.9) | .77 (19.6) | 63                        | 0.5                       | 425M50496R               | 1.03 (26.2) | .48 (12.2) | .82 (20.8) | 102                       |
|                           |                          |             |            |            |                           | 0.56                      | 425M56496R               | 1.03 (26.2) | .51 (13.0) | .85 (21.6) | 103                       |
| 1.5                       | 425M15594L               | 1.23 (31.2) | .42 (10.7) | .76 (19.3) | 49                        | 0.62                      | 425M62496R               | 1.03 (26.2) | .54 (13.7) | .88 (22.4) | 104                       |
| 1.8                       | 425M18594L               | 1.23 (31.2) | .47 (11.9) | .81 (20.6) | 50                        | 0.68                      | 425M68496R               | 1.03 (26.2) | .56 (14.2) | .91 (23.1) | 105                       |
| 2.0                       | 425M20594L               | 1.23 (31.2) | .47 (11.9) | .87 (22.1) | 50                        | 0.75                      | 425M75496R               | 1.03 (26.2) | .59 (15.0) | .94 (23.9) | 105                       |
| 2.2                       | 425M22594L               | 1.23 (31.2) | .49 (12.4) | .90 (22.9) | 51                        |                           |                          |             |            |            |                           |
| 2.5                       | 425M25594L               | 1.23 (31.2) | .53 (13.5) | .93 (23.6) | 51                        | 0.82                      | 425M82496L               | 1.23 (31.2) | .54 (13.7) | .88 (22.4) | 80                        |
| 2.7                       | 425M27594L               | 1.23 (31.2) | .55 (14.0) | .96 (24.4) | 51                        | 0.9                       | 425M90496L               | 1.23 (31.2) | .57 (14.5) | .91 (23.1) | 81                        |
| 3.0                       | 425M30594L               | 1.23 (31.2) | .58 (14.7) | .99 (25.1) | 52                        | 1.0                       | 425M10596L               | 1.23 (31.2) | .60 (15.2) | .94 (23.9) | 81                        |

\* 60 Hz., RMS

<sup>1</sup> To complete part number for specific tolerance, terminal style and lead length please refer to Ordering/Part Number Information page.

Dimensions in inches, metric (mm) in parenthesis.

Rev. 1/99



## General Specifications

The Type 425M Orange Drop® is designed and manufactured for operation in a wide range of demanding environments and applications. Type 425M capacitors are wound from the most reliable metallized polyester film available and are protected by a rugged conformal coating of orange epoxy. They may be operated up to +125°C with proper derating.

The 425M series is an ideal choice for a variety of commercial and industrial electronic applications, from power supplies and instrumentation to amplifiers and lighting ballasts. The 425M series is constructed of the highest quality polyester film with a vacuum deposited metal electrode. Metallized film offers specific clearing/self-healing characteristics that remove a fault or short in the dielectric film by vaporizing the metal electrode surrounding the defect and isolating the area.

### Operating Temperature Range:

The standard operating temperature range for polyester film is -55°C to +85°C. The 425M may be operated at full voltage within this temperature range.

The 425M may be operated up to +105°C provided the DC working voltage is reduced to 70% of the +85°C rating (full rating), and up to +125°C with a 50% reduction from the +85°C rating (full rating).

For more specific details regarding operation above +85°C please contact our application engineering department.

The maximum operating temperature for the 425M series is +125°C.

### Dielectric Withstanding Voltage:

Units shall withstand a DC potential of 150% of rated voltage applied between terminals for not more than 2 minutes.

### AC Voltage Applications:

The A-C component of the 425M's voltage rating has been specified to assure that corona will not be encountered when the capacitor is operated within the noted specifications. We encourage you to contact us if you have any concerns about operating voltage, temperature limits, etc.

### Lead Bend Test:

After 3 consecutive 180° bends. No damage.

### Humidity Testing:

Units subjected to 95% relative humidity for 72 hours with no voltage applied at +75°C. After 4 hours of drying minimum product of insulation resistance and capacitance shall be 5,000 MΩ-μF, but need not exceed 5000 MΩ.

### DC Voltage Life Test:

500 hours at +85°C at 125% of rated voltage. After test; capacitance shall not have changed by more than ±5% of initial value, insulation resistance shall not have decreased by more than 50% of initial value and dissipation factor shall not have increased to more than 1.0%. In addition, there should be no open or short circuits, and no sign of visible damage.

### Typical Temperature Characteristics:

