# Type 725M, Orange Drop<sup>®</sup>, Metallized Polypropylene Film Capacitors

# Type 725M Orange Drop<sup>®</sup> Metallized Polypropylene Film Capacitors

# **Features**

- Radial-lead
- Pressed profile, compact size
- Non-inductively wound
- Very low ESR/ESL
- Self-healing properties

# **Specifications**

Capacitance Range: .01 to 4.7µF

### **Capacitance Tolerance:**

 $\pm 5\%, \pm 10\%$ (other tolerances available upon request)

### Voltage Ratings:

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

### **Operating Temperature Range:**

 $-55^{\circ}$ C to  $+85^{\circ}$ C (at full voltage)

**Voltage Derating:** At +105°C, 50% of +85°C rating.

### **Dissipation Factor:**

0.1% Maximum @ 1 KHz, +25°C (contact us for additional details on specific capacitance and voltage ratings.)

> Regulatory Information



### Corona Start Voltage (typical):

160 VDC units: 250 Volts RMS
250 VDC units: 275 Volts RMS
400 VDC units: 300 Volts RMS
630 VDC units: 325 Volts RMS

#### **Insulation Resistance:**

At +25°C:200,000 MΩ for C  $\leq 0.5 \,\mu\text{F}$ <br/>100,000 MΩ- $\mu\text{F}$  for C > 0.5  $\mu\text{F}$ <br/>At +85°C:At +85°C:10,000 MΩ for C  $\leq 0.5 \,\mu\text{F}$ <br/>5,000 MΩ- $\mu\text{F}$  for C > 0.5  $\mu\text{F}$ 

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

See standard ratings table. dV/dt rating is in Volts/µsec.

### **Encapsulation:**

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

### Lead Wire:

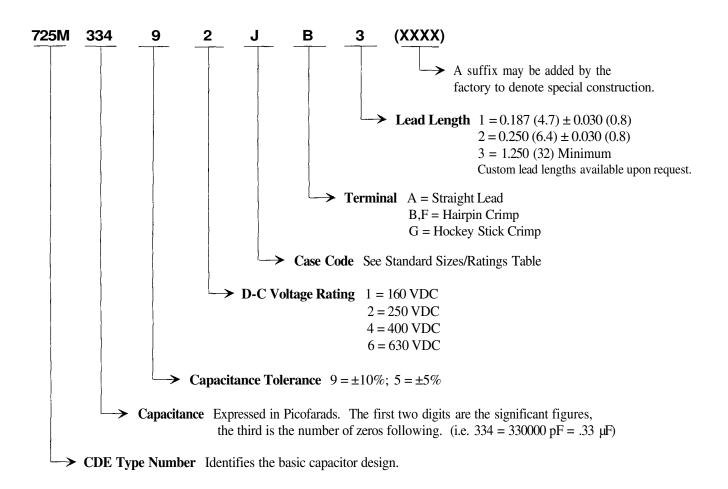
Tinned copper-clad steel, .032 (0.8) diameter, #20 AWG.

### **Dielectric/Construction:**

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

#### Dimensions in inches, metric (mm) in parenthesis.

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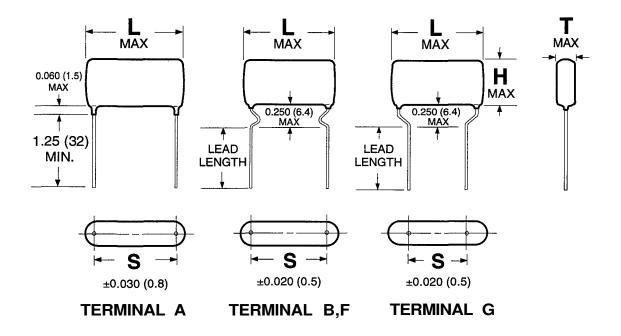


## **Ordering/Part Number Information**

# **Standard Marking Format**

#### **Tolerance codes** Sample Marking Description on unit per EIA Standards CDE - CDE Electronics identification CDE725M250V 725M -Type number J $\pm 5\%$ 334K 9910 250V-D-C Voltage rating, Volts Κ ±10% 334K -Capacitance and tolerance code 9910 -Weekly date code (i.e. 10th week of 1999)

# **Standard Lead Styles**



# **Standard Lead Spacings**

CASE	S								
CODE	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)					

<b>Type 725</b>	M Standarc	I Sizes/Ratings
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Value	Part Number <sup>1</sup>	Lмах	Тмах	Нмах	dV/dt	Value			Тмах	Нмах	dV/dt
(μF)					Volts/µsec	(μF)	Part Number <sup>1</sup>				Volts/µsec
	160 \	/DC / 10	0 VAC*				250	VDC /	160 VAC	*	
0.1	725M10491N	.52 (13.2)	.21 (5.3)	.39 (9.9)	55	0.056	725M56392N	.52 (13.2)	.21 (5.3)	.35 (8.9)	54
0.12	725M12491N	.52 (13.2)	.26 (6.6)	.43 (10.9)	64	0.062	725M62392N	.52 (13.2)	.21 (5.3)	.38 (9.7)	61
0.15	725M15491N	.52 (13.2)	.22 (5.9)	.49 (12.4)	73	0.068	725M68392N	.52 (13.2)	.22 (5.6)	.39 (9.9)	68
0.18	725M18491N	.52 (13.2)	.24 (6.1)	.51 (13.0)	79	0.075	725M75392N	.52 (13.2)	.21 (5.3)	.42 (10.7)	73
						0.082	725M82392N	.52 (13.2)	.22 (5.6)	.43 (10.9)	77
0.22	725M22491J	.73 (18.5)	.20 (5.1)	.46 (11.7)	30	0.09	725M90392N	.52 (13.2)	.23 (5.8)	.44 (11.2)	83
0.25	725M25491J	.73 (18.5)	.21 (5.3)	.48 (12.2)	33	0.1	725M10492N	.52 (13.2)	.24 (6.1)	.45 (11.4)	88
0.27	725M27491J	.73 (18.5)	.21 (5.3)	.48 (12.2)	35	0.12	725M12492N	.52 (13.2)	.26 (6.6)	.47 (11.9)	95
0.3	725M30491J	.73 (18.5)	.22 (5.6)	.49 (12.4)	37	0.15	725M15492N	.52 (13.2)	.29 (7.4)	.50 (12.7)	103
0.33	725M33491J	.73 (18.5)	.23 (5.8)	.50 (12.7)	38	[					
0.39	725M39491J	.73 (18.5)	.25 (6.4)	.52 (13.2)	41	0.18	725M18492J	.73 (18.5)	.21 (5.3)	.48 (12.2)	42
0.43	725M43491J	.73 (18.5)	.26 (6.6)	.54 (13.7)	42	0.22	725M22492J	.73 (18.5)	.23 (5.8)	.50 (12.7)	46
0.47	725M47491J	.73 (18.5)	.28 (7.1)	.55 (14.0)	43	0.25	725M25492J	.73 (18.5)	.25 (6.4)	.52 (13.2)	48
0.5	725M50491J	.73 (18.5)	.28 (7.1)	.56 (14.2)	44	0.27	725M27492J	.73 (18.5)	.26 (6.6)	.53 (13.5)	50
0.56	725M56491J	.73 (18.5)	.30 (7.6)	.57 (14.5)	45	0.3	725M30492J	.73 (18.5)	.27 (6.9)	.54 (13.7)	51
0.62	725M62491J	.73 (18.5)	.32(8.1)	.59 (15.0)	46	0.33	725M33492J	.73 (18.5)	.28 (7.1)	.55 (14.0)	53
0.68	725M68491J	.73 (18.5)	.33 (8.4)	.60 (15.2)	47	0.39	725M39492J	.73 (18.5)	.31 (7.9)	.58 (14.7)	55
						0.43	725M43492J	.73 (18.5)	.32 (8.1)	.60 (15.2)	56
0.75	725M75491R	1.03 (26.2)	.27 (6.9)	.54 (13.7)	25	ļ					
0.82	725M82491R	1.03 (26.2)	.28 (7.1)	.55 (14.0)	26	0.47	725M47492R	1.03 (26.2)	· · ·	.53 (13.5)	30
0.9	725M90491R	1.03 (26.2)	.29 (7.4)	.57 (14.5)	27	0.5	725N50492R	1.03 (26.2)	.27 (6.9)	.54 (13.7)	30
1.0	725M10591R	1.03 (26.2)	.31 (7.9)	.58 (14.7)	27	0.56	725M56492R	1.03 (26.2)	.28 (7.1)	.56 (14.2)	31
1.2	725M12591R	1.03 (26.2)	.34 (8.6)	.61 (15.5)	28	0.62	725M62492R	1.03 (26.2)	· · ·	.57 (14.5)	32
1.5	725M15591R	1.03 (26.2)	.38 (9.7)	.65 (16.5)	29	0.68	725M68492R	1.03 (26.2)	• •	.63 (16.0)	33
1.8	725M18591R	1.03 (26.2)	.42 (10.7)	.69 (17.5)	30	0.75	725M75492R	1.03 (26.2)	( )	.64 (16.3)	33
2.0	725M20591R	1.03 (26.2)	.44 (11.2)	.72 (18.3)	30	0.82	725M82492R	1.03 (26.2)	.32 (8.1)	.66 (16.8)	34
2.2	725M22591R	1.03 (26.2)	.44 (11.2)	.78 (19.8)	30	0.9	725M90492R	1.03 (26.2)	( )	.67 (17.0)	34
						1.0	725M10592R	1.03 (26.2)	.36 (9.1)	.69 (17.5)	35
2.5	725M25591L	1.23 (31.2)	.44 (11.2)	.71 (18.0)	24	1.2	725M12592R	1.03 (26.2)	.39 (9.9)	.73 (18.5)	36
2.7	725M27591L	1.23 (31.2)	.46 (11.7)	.73 (18.5)	24	}					
3.0	725M30591L	1.23 (31.2)	.48 (12.2)	.76 (19.3)	24	1.5	725M15592L	1.23 (31.2)	· ,	.73 (18.5)	28
3.3	725M33591L	1.23 (31.2)	.51 (13.0)	.78 (19.8)	24	1.8	725M18592L	1.23 (31.2)	. ,	.77 (19.6)	
3.6	725M36591L	1.23 (31.2)	.53 (13.5)	.81 (21.6)	24	2.0	725M20592L	1.23 (31.2)	.45 (11.4)	.79 (20.1)	29
3.9	725M39591L	1.23 (31.2)	.52 (13.2)	.87 (22.1)	24	2.2	725M22592L	1.23 (31.2)	.48 (12.2)	.82 (20.8)	29
4.3	725M43591L	1.23 (31.2)	.55 (14.0)	.90 (22.9)	25	2.5	725M25592L	1.23 (31.2)	.51 (13.0)	.85 (21.6)	29
4.7	725M47591L	1.23 (31.2)	.58 (14.7)	.92 (23.4)	25	2.7	725M27592L	1.23 (31.2)	.53 (13.5)	.88 (22.4)	29
)						3.0	725M30592L	1.23 (31.2)	.57 (14.5)	.91 (23.1)	30
						3.3	725M33592L	1.23 (31.2)	.60 (15.2)	.94 (23.9)	30

\* 60 Hz., RMS

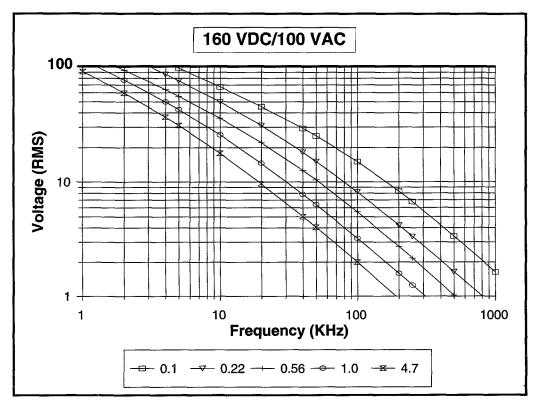
<sup>1</sup> To complete part number for specific tolerance, terminal style and lead length please refer to Ordering/Part Number Information page.

0.033         7251           0.039         7251           0.043         7251           0.047         7251           0.056         7251           0.062         7251           0.068         7251           0.082         7251           0.082         7251           0.09         7251           0.1         7251           0.12         7251	M27394N M33394N M39394N M43394N M47394N M50394N M56394N M62394N M68394N M75394N M82394N M90394N	<b>/DC</b> / <b>220</b> .52 (13.2) .52 (13.2)	21 (5.3) 21 (5.3) 23 (5.8) 24 (6.1) 24 (6.1) 25 (6.4) 27 (6.9) 28 (7.1) 27 (6.9) 28 (7.1) 29 (7.4)	.36 (9.1) .42 (10.7) .43 (10.9) .44 (11.2) .45 (11.4) .46 (11.7) .47 (11.9) .49 (12.4) .54 (13.7)	90 110 124 132 138 142 149 155	0.01 0.012 0.015 0.018 0.022 0.025 0.027 0.033	630 725M10396N 725M12396N 725M15396N 725M18396N 725M22396N 725M25396N 725M27396N	<b>VDC</b> / .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	250 VAC 21 (5.3) 23 (5.8) 25 (6.4) 27 (6.9) 29 (7.4) 27 (6.9)	.35 (8.9) .37 (9.4) .43 (10.9) .45 (11.4) .48 (12.2) .49 (12.4)	161 196 232 256 279 291
0.033         7251           0.039         7251           0.043         7251           0.047         7251           0.056         7251           0.062         7251           0.068         7251           0.082         7251           0.082         7251           0.09         7251           0.1         7251           0.12         7251	M33394N M39394N M43394N M47394N M50394N M56394N M62394N M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2)	.21 (5.3) .23 (5.8) .24 (6.1) .24 (6.1) .25 (6.4) .27 (6.9) .28 (7.1) .27 (6.9) .28 (7.1)	.42 (10.7) .43 (10.9) .44 (11.2) .45 (11.4) .46 (11.7) .47 (11.9) .49 (12.4) .54 (13.7)	110 124 132 138 142 149 155	0.012 0.015 0.018 0.022 0.025 0.027	725M12396N 725M15396N 725M18396N 725M22396N 725M22396N 725M25396N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.23 (5.8) .23 (5.8) .25 (6.4) .27 (6.9) .29 (7.4)	.37 (9.4) .43 (10.9) .45 (11.4) .48 (12.2) .49 (12.4)	196 232 256 279 291
0.039         7251           0.043         7251           0.047         7251           0.05         7251           0.062         7251           0.068         7251           0.075         7251           0.082         7251           0.09         7251           0.1         7251           0.12         7251	M39394N M43394N M47394N M50394N M56394N M62394N M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.23 (5.8) .24 (6.1) .24 (6.1) .25 (6.4) .27 (6.9) .28 (7.1) .27 (6.9) .28 (7.1)	.43 (10.9) .44 (11.2) .45 (11.4) .46 (11.7) .47(11.9) .49 (12.4) .54 (13.7)	124 132 138 142 149 155	0.015 0.018 0.022 0.025 0.027	725M15396N 725M18396N 725M22396N 725M25396N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.23 (5.8) .25 (6.4) .27 (6.9) .29 (7.4)	.43 (10.9) .45 (11.4) .48 (12.2) .49 (12.4)	232 256 279 291
0.043         725I           0.047         725I           0.05         725I           0.066         725I           0.068         725I           0.075         725I           0.082         725I           0.09         725I           0.1         725I           0.12         725I	M43394N M47394N M50394N M56394N M62394N M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.24 (6.1) .24 (6.1) .25 (6.4) .27 (6.9) .28 (7.1) .27 (6.9) .28 (7.1)	.44 (11.2) .45 (11.4) .46 (11.7) .47(11.9) .49 (12.4) .54 (13.7)	132 138 142 149 155	0.018 0.022 0.025 0.027	725M18396N 725M22396N 725M25396N	.52 (13.2) .52 (13.2) .52 (13.2)	.25 (6.4) .27 (6.9) .29 (7.4)	.45 (11.4) .48 (12.2) .49 (12.4)	256 279 291
0.047         7251           0.05         7251           0.056         7251           0.068         7251           0.075         7251           0.082         7251           0.09         7251           0.1         7251           0.12         7251	M47394N M50394N M56394N M62394N M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.24 (6.1) .25 (6.4) .27 (6.9) .28 (7.1) .27 (6.9) .28 (7.1)	.45 (11.4) .46 (11.7) .47(11.9) .49 (12.4) .54 (13.7)	138 142 149 155	0.022 0.025 0.027	725M22396N 725M25396N	.52 (13.2) .52 (13.2)	.27 (6.9) .29 (7.4)	.48 (12.2) .49 (12.4)	279 291
0.05         725I           0.056         725I           0.068         725I           0.075         725I           0.082         725I           0.09         725I           0.1         725I           0.12         725I	M50394N M56394N M62394N M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.25 (6.4) .27 (6.9) .28 (7.1) .27 (6.9) .28 (7.1)	.46 (11.7) .47(11.9) .49 (12.4) .54 (13.7)	142 149 155	0.025 0.027	725M25396N	.52 (13.2)	.29 (7.4)	.49 (12.4)	291
0.056 7251 0.062 7251 0.068 7251 0.075 7251 0.082 7251 0.09 7251 0.1 7251 0.12 7251	M56394N M62394N M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.27 (6.9) .28 (7.1) .27 (6.9) .28 (7.1)	.47(11.9) .49 (12.4) .54 (13.7)	149 155	0.027		. ,	( )		
0.062 7251 0.068 7251 0.075 7251 0.082 7251 0.09 7251 0.1 7251 0.12 7251	M62394N M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2) .52 (13.2)	.28 (7.1) .27 (6.9) .28 (7.1)	.49 (12.4) .54 (13.7)	155		725M27396N	.52 (13.2)	27 (6 0)		
0.068 7251 0.075 7251 0.082 7251 0.09 7251 0.17 7251 0.12 7251	M68394N M75394N M82394N M90394N	.52 (13.2) .52 (13.2) .52 (13.2)	.27 (6.9) .28 (7.1)	.54 (13.7)		0.033			.27 (0.3)	.55 (14.0)	297
0.075 7251 0.082 7251 0.09 7251 0.1 7251 0.12 7251	M75394N M82394N M90394N	.52 (13.2) .52 (13.2)	.28 (7.1)	· · ·	1	0.000	725M33396N	.52 (13.2)	.30 (7.6)	.58 (14.7)	312
0.082 7251 0.09 7251 0.1 7251 0.12 7251	M82394N M90394N	.52 (13.2)	.28 (7.1)		159	0.039	725M39396N	.52 (13.2)	.33 (8.4)	.60 (15.2)	322
0.09 725 0.1 725 0.12 725	M90394N	· · ·	29 (7 1)	.55 (14.0)	164	0.043	725M43396N	.52 (13.2)	.35 (8.9)	.62 (15.7)	328
0.1 725M 0.12 725M		.52 (13.2)	.23 (1.4)	.57(14.5)	166	0.047	725M47396N	.52 (13.2)	.36 (9.1)	.64 (16.3)	332
0.12 725			.31 (7.9)	.58 (14.7)	171	0.05	725M50396N	.52 (13.2)	.37 (9.4)	.65 (16.1)	335
0.12 725			· · /			0.056	725M56396N	.52 (13.2)	.40 (10.2)	.67 (17.0)	340
0.12 725	M10494J	.73 (18.5)	.22 (5.6)	.49 (12.4)	61	0.062	725M62396N	.52 (13.2)	.42 (10.7)	.69 (17.5)	344
0.15 725		.73 (18.5)	.24 (6.1)	.51 (13.0)	66			· · /	. ,	( )	
		.73 (18.5)	.27 (6.9)	.54 (13.7)	72	0.068	725M68396J	.73 (18.5)	.27 (6.9)	.54 (13.7)	115
0.18 725		.73 (18.5)	.29 (7.4)	.56 (14.2)	75	0.075	725M75396J	.73 (18.5)	.28 (7.1)	.56 (14.2)	118
0.22 725	M22494J	.73 (18.5)	.32 (8.1)	.60 (15.2)	78	0.082	725M82396J	.73 (18.5)	.30 (7.6)	.57 (14.5)	120
0.25 725		.73 (18.5)	.34 (8.6)	.62 (15.7)	80	0.09	725M90396J	.73 (18.5)	.31 (7.9)	.58 (14.7)	123
	M27494J	.73 (18.5)	.36 (9.1)	.63 (16.0)	81	0.1	725M10496J	.73 (18.5)	.33 (8.4)	.60 (15.2)	125
0.3 7251		.73 (18.5)	.38 (9.7)	.65 (16.5)	82	0.12	725M12496J	.73 (18.5)	.36 (9.1)	.63 (16.0)	129
		( )	( )	( )		0.15	725M15496J	.73 (18.5)	.40 (10.2)	.68 (17.3)	133
0.33 725	VI33494R	1.03 (26.2)	.30 (7.6)	.57 (14.5)	43			( )	- ( - )	( -)	
0.39 725		1.03 (26.2)	.33 (8.4)	.60 (15.2)	45	0.18	725M18496R	1.03 (26.2)	.33 (8.4)	.60 (15.2)	68
		1.03 (26.2)	.34 (8.6)	.62 (15.7)	46	0.22	725M22496R	1.03 (26.2)	· · ·	.67 (17.0)	70
		1.03 (26.2)	.36 (9.1)	.63 (16.0)	46	0.25	725M25496R	1.03 (26.2)	· · ·	.70 (17.8)	72
0.5 725		1.03 (26.2)	.37 (9.4)	.64 (16.3)	47	0.27	725M27496R	1.03 (26.2)	. ,	.71 (18.0)	72
		1.03 (26.2)	.39 (9.9)	.67 (17.0)	48	0.3	725M30496R	1.03 (26.2)	· ,	.74 (18.8)	73
		1.03 (26.2)	.41 (10.4)	.69 (17.5)	48	0.33	725M33496R	1.03 (26.2)	· ,	.76 (19.3)	74
		1.03 (26.2)	.41 (10.4)	.75(19.1)	48	0.39	725M39496R	1.03 (26.2)	( )	.80 (20.3)	75
		1.03 (26.2)	.43 (10.9)	.77 (19.6)	49	0.43	725M43496R	1.03 (26.2)	· · ·	.82 (20.8)	75
		1.03 (26.2)	.45 (11.4)	.79 (20.1)	49	0.47	725M47496R	1.03 (26.2)	· · /	.85 (21.6)	76
		1.03 (26.2)	.47 (11.9)	.81 (20.6)	50	0.5	725M50496R	1.03 (26.2)	· · ·	.87 (22.1)	76
1.0 7251	M105941	1.23 (31.2)	.44 (11.2)	.78 (19.8)	38	0.56	725M56496L	1.23 (31.2)	.48 (12.2)	.82 (20.8)	58
		1.23 (31.2)	.48 (12.2)	.82 (20.8)	39	0.62	725M62496L	1.23 (31.2)	• • •	.85 (21.6)	58
		1.23 (31.2)	.54 (13.7)	.89 (22.6)	39	0.68	725M68496L	1.23 (31.2)	· · ·	.88 (22.4)	59
		- ()	- ( )	- ( -)		0.75	725M75496L	1.23 (31.2)	( )	.91 (23.1)	59

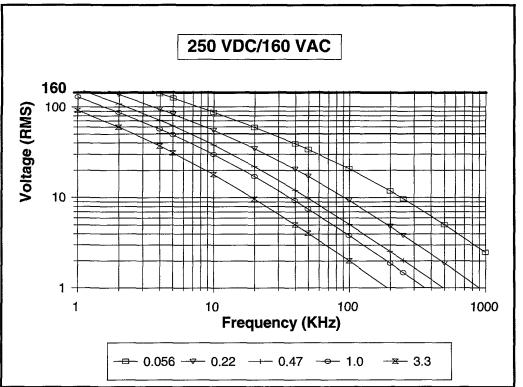
# Type 725M Standard Sizes/Ratings

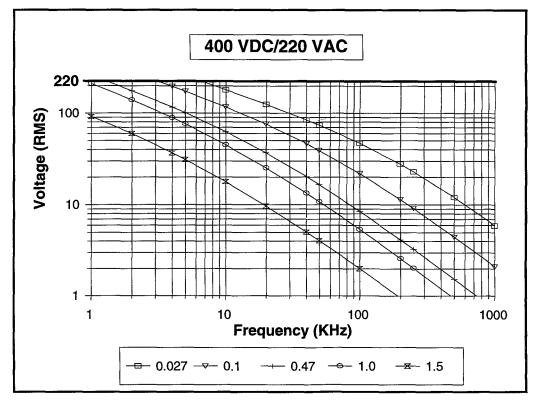
\* 60 Hz., RMS

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

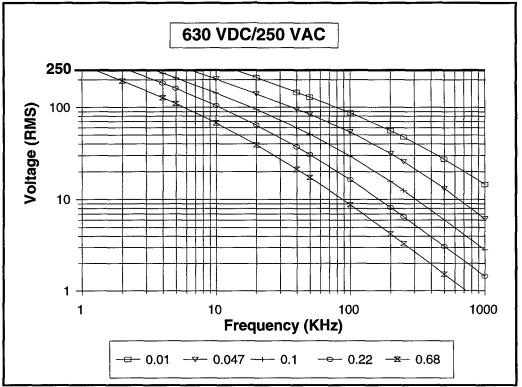


RMS Voltage vs. Frequency @ +85°C, in still air





RMS Voltage vs. Frequency @ +85°C, in still air



# **General Specifications**

The Type 725M Orange Drop<sup>®</sup> is designed and manufactured for operation in a wide range of demanding environments and applications. Type 725M capacitors are wound from the most reliable metallized polypropylene film available and are protected by a rugged conformal coating of orange epoxy. They may be operated up to +105°C with proper derating.

The 725M series is an ideal choice for a variety of commercial and industrial electronic applications, from power supplies and amplifiers, to inverters and lighting ballasts. The 725M series is constructed of the highest quality polypropylene 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 polypropylene film is -55°C to +85°C. The 725M may be operated at full voltage within this temperature range.

The 725M may be operated up to  $+105^{\circ}$ C provided the DC working voltage is reduced to 50% of the  $+85^{\circ}$ 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 725M series is +105°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 725M'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.

#### DC Voltage Life Test:

500 hours at +85°C at 125% of rated voltage. After test; capacitance shall not have changed by more than  $\pm 5\%$  of initial value, insulation resistance shall not have decreased by more than 50% of initial requirement and dissipation factor shall not have increased to more than 0.1%. In addition, there should be no open or short circuits, and no sign of visible damage.

#### AC Voltage Life Test:

Minimum of 500 hours at +85°C at 60 Hz. AC test voltage applied at 110% of AC rating. After test, capacitance shall not have changed by more than 3%, insulation resistance shall not have decreased by more than 50% of initial requirement, and dissipation factor shall not have changed by more than 0.03%. Measurements made at 1 KHz.

#### **Additional Notes:**

While it is not possible to list every detail of testing that we perform or every combination of capacitance value, tolerance, etc. that is available, we strongly encourage you to please contact us with your specific requirements. Thank you. Notice and Disclaimer: All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.