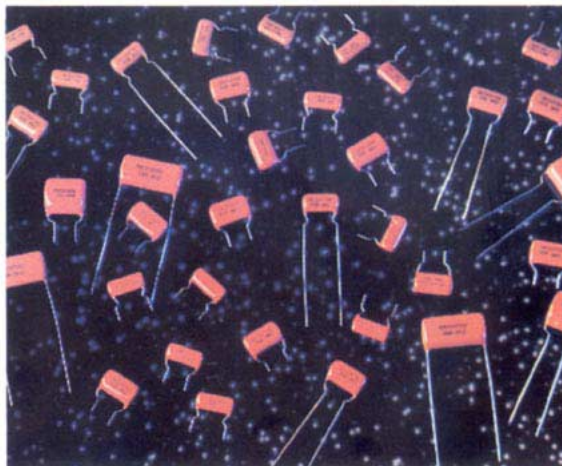


Type 225P, Orange Drop®, Polyester Film/Foil Capacitors

Features

- Radial-lead. Pressed profile.
- Non-inductively wound, extended foil construction.
- Over 35 years of proven dependability.
- Wide availability through CDE Distribution.



Specifications

Capacitance Range:

.00 to 1.0 μF

Capacitance Tolerance:

$\pm 5\%$, $\pm 10\%$, $\pm 20\%$

Voltage Ratings:

100 to 600 Volts D-C

70 to 200 Volts A-C

Operating Temperature Range:

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

Voltage Derating:

At $+105^{\circ}\text{C}$, 70% of $+85^{\circ}\text{C}$ rating.

At $+125^{\circ}\text{C}$, 50% of $+85^{\circ}\text{C}$ rating.

Lead Wire:

Tinned copper-clad steel,

.032 (0.8) diameter, #20 AWG

Insulation Resistance:

At $+25^{\circ}\text{C}$: 100,000 $\text{M}\Omega$ for $\leq .25 \mu\text{F}$
25,000 $\text{M}\Omega$ - μF for $C > .25 \mu\text{F}$

At $+85^{\circ}\text{C}$: 10,000 $\text{M}\Omega$ for $C \leq .15 \mu\text{F}$
1,500 $\text{M}\Omega$ - μF for $C > .15 \mu\text{F}$

At $+105^{\circ}\text{C}$: 1,500 $\text{M}\Omega$ for $C \leq .17 \mu\text{F}$
250 $\text{M}\Omega$ - μF for $C > .17 \mu\text{F}$

At $+125^{\circ}\text{C}$: 200 $\text{M}\Omega$ for $C \leq .13 \mu\text{F}$
25 $\text{M}\Omega$ - μF for $C > .13 \mu\text{F}$

Dissipation Factor:

0.75% Maximum @ 1 KHz, $+25^{\circ}\text{C}$

Encapsulation:

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

Dielectric/Construction:

Polyester film, single section design.

Non-inductively wound with extended aluminum foil.

Dimensions in inches, metric (mm) in parenthesis.

Type 225P, Orange Drop®, Polyester Film/Foil Capacitors

General Specifications

The Type 225P Orange Drop® is designed and manufactured for operation in a wide range of demanding environments and applications. Type 225P capacitors are wound from the most reliable polyester film and aluminum foil available and are protected by a rugged conformal coating of orange epoxy. They may be operated up to +125°C with proper derating.

The combination of proven dependability and extensive availability through CDE distribution make the 225P an ideal choice for many commercial and industrial electronic applications, from power supplies and instrumentation to audio amplifiers and test equipment.

Operating Temperature Range:

The standard operating temperature range for polyester film is -55°C to +85°C. The 225P may be operated at full voltage within this temperature range.

The 225P 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 design engineering department.

The maximum operating temperature for the 225P polyester film capacitors is +125°C.

Dielectric Withstanding Voltage:

Units shall withstand a DC potential of 250% of rated voltage applied between terminals for not more than 5 seconds.

AC Voltage Applications:

The A-C component of the 225P'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.

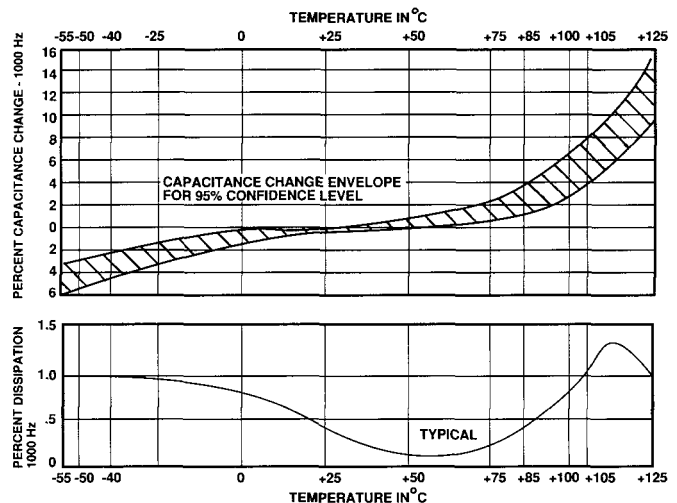
Humidity Testing:

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.

DC Voltage Life Test:

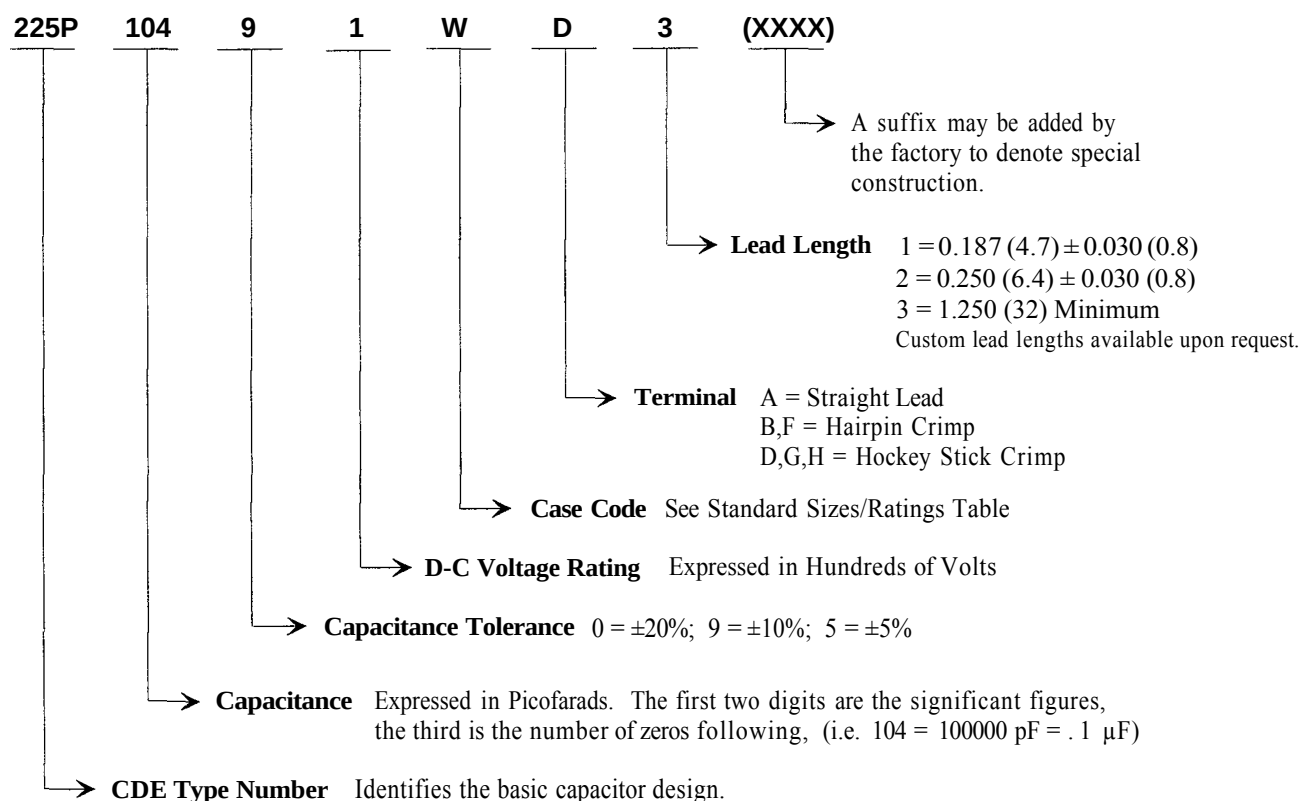
500 hours at +85°C at 150% of rated voltage. After test; capacitance shall not have changed by more than ±5% of initial value, insulation resistance shall not have decreased by more than 50% of initial value and dissipation factor shall not have increased to more than 1.0%. In addition, there should be no open or short circuits, and no sign of visible damage.

Typical Temperature Characteristics:



Type 225P, Orange Drop®, Polyester Film/Foil Capacitors

Ordering/Part Number information



Standard Marking Format

Sample Marking on unit

CDE225P100V
104K 9810

Description

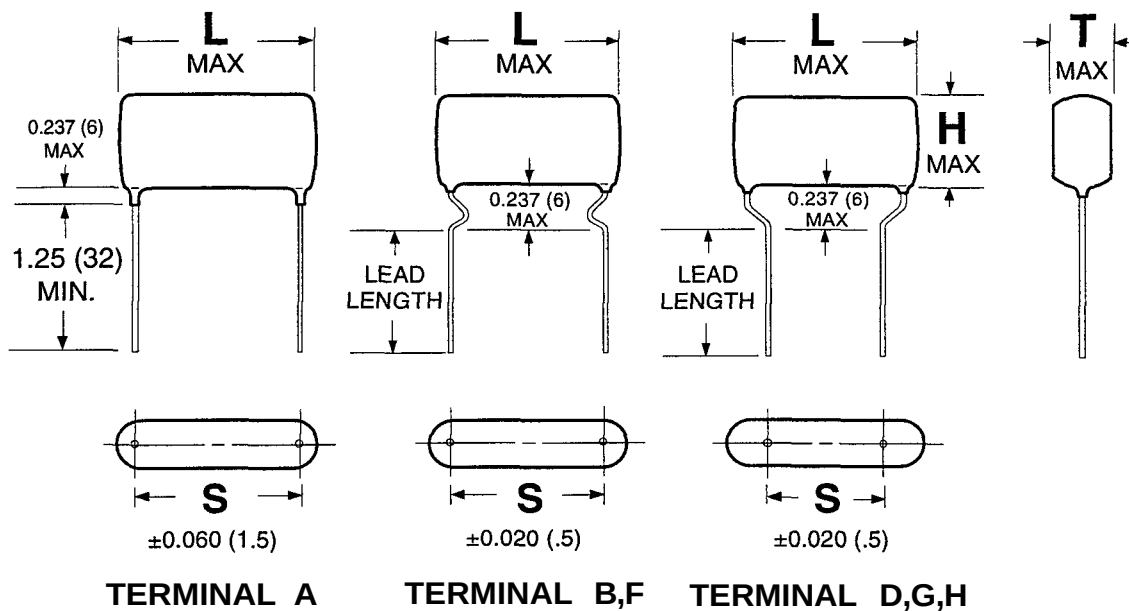
CDE - CDE Electronics identification
225P - Type number
100V - D-C Voltage rating, Volts
104K - Capacitance and tolerance code
9810 - Weekly date code
(i.e. 10th week of 1998)

Tolerance codes per EIA Standards

J $\pm 5\%$
K $\pm 10\%$
M $\pm 20\%$

Type 225P, Orange Drop[®], Polyester Film/Foil Capacitors

Standard Lead Styles



Standard Lead Spacings

CASE CODE	S					
	Term. A	Term. B	Term. D	Term. F	Term. G	Term. H
W	0.562 (14.3)	0.562 (14.3)	0.375 (9.5)	0.394 (10)	0.295 (7.5)	0.197 (5)
X	0.613 (15.6)	0.613 (15.6)	0.375 (9.5)	0.590 (15)	0.394 (10)	0.295 (7.5)
Y	0.969 (24.6)	0.969 (24.6)	0.719 (18.3)	0.886 (22.5)	0.590 (15)	---

Dimensions in inches, metric (mm) in parenthesis.

Type 225P, Orange Drop®, Polyester Film/Foil Capacitors

Type 225P Standard Sizes/Ratings²

Value, μ F	Part Number ¹	L MAX	T MAX	H MAX	Value, μ F	Part Number ¹	L MAX	T MAX	H MAX
100 VDC / 70 VAC*					200 VDC / 140 VAC*				
.001	225P10291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.001	225P10292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0012	225P12291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0012	225P12292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0015	225P15291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0015	225P15292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0018	225P18291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0018	225P18292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0022	225P22291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0022	225P22292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0027	225P27291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0027	225P27292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0033	225P33291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0033	225P33292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0039	225P39291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0039	225P39292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0047	225P47291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0047	225P47292 X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0056	225P56291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0056	225P56292 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.0068	225P68291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0068	225P68292 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.0082	225P82291 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.0082	225P82292 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.01	225P10391 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.01	225P10392 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.012	225P12391 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.012	225P12392 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.015	225P15391 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.015	225P15392 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.018	225P18391 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.018	225P18392 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.022	225P22391 W	.70 (17.8)	.25 (6.4)	.35 (8.9)	.022	225P22392 X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.027	225P27391 W	.70 (17.8)	.27 (6.9)	.37 (9.4)	.027	225P27392 X	.80 (20.3)	.28 (7.1)	.61 (15.5)
.033	225P33391 W	.70 (17.8)	.27 (6.9)	.37 (9.4)	.033	225P33392 X	.80 (20.3)	.28 (7.1)	.61 (15.5)
.039	225P39391 W	.70 (17.8)	.30 (7.6)	.42 (10.7)	.039	225P39392 X	.80 (20.3)	.28 (7.1)	.61 (15.5)
.047	225P47391 W	.70 (17.8)	.30 (7.6)	.42 (10.7)	.047	225P47392 X	.80 (20.3)	.28 (7.1)	.61 (15.5)
.056	225P56391 W	.70 (17.8)	.34 (8.6)	.49 (12.4)	.056	225P56392 X	.80 (20.3)	.31 (7.9)	.64 (16.3)
.068	225P68391 W	.70 (17.8)	.34 (8.6)	.49 (12.4)	.068	225P68392 X	.80 (20.3)	.31 (7.9)	.64 (16.3)
.082	225P82391 W	.70 (17.8)	.40 (10.2)	.55 (14.0)	.082	225P82392 X	.80 (20.3)	.34 (8.6)	.67 (17.0)
.1	225P10491 W	.70 (17.8)	.40 (10.2)	.55 (14.0)	.1	225P10492 X	.80 (20.3)	.37 (9.4)	.71 (18.0)
.12	225P12491 X	.80 (20.3)	.37 (9.4)	.57 (14.5)	.12	225P12492 X	.80 (20.3)	.39 (9.9)	.72 (18.3)
.15	225P15491 X	.80 (20.3)	.40 (10.2)	.62 (15.7)	.15	225P15492 X	.80 (20.3)	.41 (10.4)	.74 (18.8)
.18	225P18491 X	.80 (20.3)	.43 (10.9)	.66 (16.8)	.18	225P18492 X	.80 (20.3)	.46 (11.7)	.75 (19.1)
.22	225P22491 X	.80 (20.3)	.46 (11.7)	.70 (17.8)	.22	225P22492 X	.80 (20.3)	.48 (12.2)	.77 (19.6)
.27	225P27491 X	.80 (20.3)	.49 (12.4)	.74 (18.8)	.27	225P27492 Y	1.25 (31.8)	.39 (9.9)	.71 (18.0)
.33	225P33491 X	.80 (20.3)	.52 (13.2)	.77 (19.6)	.33	225P33492 Y	1.25 (31.8)	.41 (10.4)	.71 (18.0)
.39	225P39491 X	.80 (20.3)	.55 (14.0)	.81 (20.6)	.39	225P39492 Y	1.25 (31.8)	.45 (11.4)	.77 (19.6)
.47	225P47491 X	.80 (20.3)	.60 (15.2)	.86 (21.8)	.47	225P47492 Y	1.25 (31.8)	.50 (12.7)	.83 (21.1)
.56	225P56491 Y	1.25 (31.8)	.55 (14.0)	.88 (22.4)	.56	225P56492 Y	1.25 (31.8)	.67 (17.0)	.99 (25.1)
.68	225P68491 Y	1.25 (31.8)	.58 (14.7)	.90 (22.9)	.68	225P68492 Y	1.25 (31.8)	.84 (21.3)	1.14 (29.0)
.82	225P82491 Y	1.25 (31.8)	.65 (16.5)	.94 (23.9)					
1.0	225P10591 Y	1.25 (31.8)	.72 (18.3)	.98 (24.9)					

* 60 Hz., RMS

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

² Shaded part numbers, when ordered as $\pm 10\%$ tolerance with the D3 terminal style and lead length, are Standard Stock items available through the CDE Distribution Network. For complete part number please add the D3 suffix to the above part numbers in accordance with the Ordering Information (i.e. 225P10491WD3). Other part numbers are available on special order.

Dimensions in inches, metric (mm) in parenthesis.

Type 225P, Orange Drop®, Polyester Film/Foil Capacitors

Type 225P Standard Sizes/Ratings²

Value, μ F	Part Number ¹	L MAX	T MAX	H MAX	Value, μ F	Part Number ¹	L MAX	T MAX	H MAX
400 VDC / 200 VAC*					600 VDC / 200 VAC*				
.001	225P10294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.001	225P10296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0012	225P12294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.0012	225P12296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0015	225P15294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.0015	225P15296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0018	225P18294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.0018	225P18296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0022	225P22294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.0022	225P22296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0027	225P27294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.0027	225P27296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0033	225P33294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.0033	225P33296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0039	225P39294X	.80 (20.3)	.25 (6.4)	.55(14.0)	.0039	225P39296X	.80 (20.3)	.25 (6.4)	.55 (14.0)
.0047	225P47294X	.80 (20.3)	.25(6.4)	.55 (14.0)	.0047	225P47296X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.0056	225P56294X	.80 (20.3)	.25 (6.4)	.58(14.7)	.0056	225P56296X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.0068	225P68294X	.80 (20.3)	.25 (6.4)	.58(14.7)	.0068	225P68296X	.80 (20.3)	.25 (6.4)	.58 (14.7)
.0082	225P82294X	.80 (20.3)	.25 (6.4)	.58(14.7)	.0082	225P82296X	.80 (20.3)	.31 (7.9)	.64 (16.3)
.01	225P10394X	.80 (20.3)	.25 (6.4)	.58 (14.7)	.01	225P10396X	.80 (20.3)	.31 (7.9)	.64 (16.3)
.012	225P12394X	.80 (20.3)	.25 (6.4)	.58 (14.7)	.012	225P12396X	.80 (20.3)	.34 (8.6)	.67 (17.0)
.015	225P15394X	.80 (20.3)	.28 (7.1)	.58(14.7)	.015	225P15396X	.80 (20.3)	.34 (8.6)	.67 (17.0)
.018	225P18394X	.80 (20.3)	.31 (7.9)	.58 (14.7)	.018	225P18396X	.80 (20.3)	.37 (9.4)	.74 (18.8)
.022	225P22394X	.80 (20.3)	.31 (7.9)	.58(14.7)	.022	225P22396X	.80 (20.3)	.37 (9.4)	.74 (18.8)
.027	225P27394X	.80 (20.3)	.34 (8.6)	.65(16.5)	.027	225P27396X	.80 (20.3)	.44 (11.2)	.77 (19.6)
.033	225P33394X	.80 (20.3)	.34 (8.6)	.65(16.5)	.033	225P33396X	.80 (20.3)	.44 (11.2)	.77 (19.6)
.039	225P39394X	.80 (20.3)	.41 (10.4)	.65(16.5)	.039	225P39396X	.80 (20.3)	.50 (12.7)	.83 (21.1)
.047	225P47394X	.80 (20.3)	.41 (10.4)	.65(16.5)	.047	225P47396X	.80 (20.3)	.50 (12.7)	.83 (21.1)
.056	225P56394X	.80 (20.3)	.47(11.9)	.80 (20.3)	.056	225P56396Y	1.25(31.8)	.47 (11.9)	.82 (20.8)
.068	225P68394X	.80 (20.3)	.47(11.9)	.80 (20.3)	.068	225P68396Y	1.25(31.8)	.47 (11.9)	.82 (20.8)
.082	225P82394X	.80 (20.3)	.50 (12.7)	.82 (20.8)	.082	225P82396Y	1.25(31.8)	.53 (13.5)	.88 (22.4)
.1	225P10494X	.80 (20.3)	.52(13.2)	.84(21.3)	.1	225P10496Y	1.25(31.8)	.56 (14.2)	.91 (23.1)
.12	225P12494Y	1.25(31.8)	.44(11.2)	.77(19.6)	.12	225P12496Y	1.25(31.8)	.60 (15.2)	.92 (23.4)
.15	225P15494Y	1.25(31.8)	.47(11.9)	.80 (20.3)	.15	225P15496Y	1.25(31.8)	.62 (15.7)	.94 (23.9)
.18	225P18494Y	1.25(31.8)	.52(13.2)	.84(21.3)	.18	225P18496Y	1.25(31.8)	.70 (17.8)	1.02 (25.9)
.22	225P22494Y	1.25(31.8)	.56(14.2)	.89 (22.6)	.22	225P22496Y	1.25(31.8)	.76 (19.3)	1.10 (27.9)
.27	225P27494Y	1.25(31.8)	.69 (17.5)	.91 (23.1)					
.33	225P33494Y	1.25(31.8)	.72 (18.3)	.99 (25.1)					
.39	225P39494Y	1.25(31.8)	.75(19.1)	1.10(27.9)					
.47	225P47494Y	1.25(31.8)	.84(21.3)	1.14(29.0)					

* 60 Hz., RMS

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

² Shaded part numbers, when ordered as $\pm 10\%$ tolerance with the D3 terminal style and lead length, are Standard Stock items available through the CDE Distribution Network. For complete part number please add the D3 suffix to the above part numbers in accordance with the Ordering Information (i.e. 225P10491WD3). Other part numbers are available on special order.

Dimensions in inches, metric (mm) in parenthesis.

Type 225P, Orange Drop®, Polyester Film/Foil Capacitors

dV/dt Specifications

Maximum Pulse Rise Time (dV/dt) in Volts/μsec

Cap Value (μF)	100V	200V	400V	600V
.001	12200	14800	21000	23300
.0012	11100	13500	19100	21300
.0015	9900	12100	17100	19000
.0018	9100	11100	15600	17400
.0022	8200	10000	14100	15700
.0027	7400	9000	12800	14200
.0033	6700	8200	11500	12800
.0039	6200	7500	10600	11800
.0047	5600	6800	9700	10700
.0056	5100	6300	8900	9800
.0068	4700	5700	8000	8900
.0082	4200	5200	7300	8100
.01	3800	4700	6600	7400
.012	3500	4300	6100	6700
.015	3100	3800	5400	6000
.018	2900	3500	4900	5500
.022	2600	3200	4500	5000
.027	2300	2900	4000	4500
.033	2100	2600	3700	4100
.039	1900	2400	3400	3700
.047	1800	2200	3100	3400
.056	1600	2000	2800	3100
.068	1500	1800	2500	2800
.082	1300	1600	2300	2300
.1	1200	1500	2100	2100
.12	1000	1400	1900	1900
.15	900	1200	1500	1700
.18	800		1400	1600
.22	700	1000	1300	1400
.27	700	800	1200	
.33	600	700	1000	
.39	600	700	1000	
.47	500	600	900	
.56	400	600		
.68	400	500		
.82	400			
1.0	300			

Note: dV/dt ratings based on measurements made at the junction of the wire leads and capacitor body.

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.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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